

Cell & Gene Therapy Product Portfolio



Explore our offering of cell culture media, supplements, proteins, and more for every stage of cell and gene therapy development

Table of Contents

Stem Cell and Primary Cell Culture Media | 02

Cell Cryopreservation Solutions | 03

Process Liquids and Buffers | 03

Attachment Substrates, Supplements, and Exosome Kits | 03

Shenandoah CTGrade GMP Recombinant Proteins | 04

Shenandoah Recombinant Proteins | 06–20

- Shenandoah Recombinant Human Proteins (100 Series) | 06–12
- Shenandoah Recombinant Mouse Proteins (200 Series) | 13–16
- Shenandoah Recombinant Rat Proteins (300 Series) | 17–18
- Shenandoah Recombinant Porcine, Guinea Pig, Macaque, Canine, and Equine Proteins (400 Series) | 19
- Shenandoah Recombinant Multi Species Proteins (800 Series) | 20

Shenandoah Protein Bundles | 21

Stem Cell and Primary Cell Culture Media

Product Description	Catalog #	Size
PRIME-XV MSC XSFM Dual Component Kit with Phenol Red	91149DC	10 mL Supplement 5 L Basal
PRIME-XV MSC XSFM Dual Component Kit without Phenol Red	91214DC	10 mL Supplement 5 L Basal
PRIME-XV T Cell Expansion XSFM	91141	1 L
	91141-1L-BPC	1L Bag
PRIME-XV T Cell CDM	91154	1 L
	91154-1L-BPC	1L Bag
PRIME-XV Dendritic Cell Maturation CDM	91146	500 mL
PRIME-XV MSC Basal XSFM	91235G	500 mL
PLTGold Clinical Grade (GMP)	PLTGold27GMP	27 mL
	PLTGold100GMP	100 mL
	PLTGold500GMP	500 mL
	PLTGold1000GMP	1 L
PLTGold-GI Clinical Grade (GMP)	PLTGold27-GI	27 mL
	PLTGold100-GI	100 mL
	PLTGold500-GI	500 mL
	PLTGold1000-GI	1 L
PLTMax Research Grade	PLTMax27R	27 mL
	PLTMax100R	100 mL
	PLTMax500R	500 mL
PLTGold Research Grade	PLTGold27R	27 mL
	PLTGold100R	100 mL
	PLTGold500R	500 mL
PRIME-XV MSC Expansion XSFM	91149	250 mL 1 L
PRIME-XV Hematopoietic Basal XSFM	91211	500 mL
PRIME-XV Neural Basal Medium	91201	500 mL
Click's Medium (EHAA)	9195	500 mL

Cell Cryopreservation Solutions

Product Description	Catalog #	Size
PRIME-XV FreezIS	91139	10 mL 100 mL
	91139 EX	10 mL 100 mL
PRIME-XV FreezIS DMSO-Free	91140	10 mL 100 mL
	91140 EX	10 mL 100 mL

Process Liquids and Buffers

Product Description	Catalog #	Size
PBS + EDTA + HSA 0.5% Buffered Saline Solution	9283 1L-BPC	1 L Bag
PBS 1X Dulbecco's Phosphate Buffered Saline Solution	9240	100 mL 500 mL 1L 5 L
	9240-1L-BPC	1 L Bag
PBS 1X Dulbecco's Phosphate Buffered Saline Solution	9236	500 mL 1L
PBS 10X Dulbecco's Phosphate Buffered Saline Solution	9242	500 mL

Attachment Substrates, Supplements, and Exosome Kits

Product Description	Catalog #	Size
PRIME-XV Human Fibronectin	31002	1 mg
PRIME-XV IS21 Supplement (50X)	91142	10 mL
PS Capture Exosome Flow Cytometry Kit	297-79701	1 Kit
PS Capture Exosome ELISA Kit	298-80601	1 Kit
MagCapture Exosome Isolation Kit PS Ver.2	294-84101	2 Tests
MagCapture Exosome Isolation Kit PS Ver.2	290-84103	10 Tests

Shenandoah CTGrade GMP Recombinant Proteins

Product Description	Catalog #	Size
CTGrade GMP rh IL-2 _{C126S}	500-01	50 µg 100 µg 1 mg
CTGrade GMP rh SCF	500-02	50 µg 100 µg 1 mg
CTGrade GMP rh FLT-3 Ligand	500-03	50 µg 100 µg 1 mg
CTGrade GMP rh IL-3	500-04	50 µg 100 µg 1 mg
CTGrade GMP rh IL-4	500-05	50 µg 100 µg 1 mg
CTGrade GMP rh IL-6	500-06	50 µg 100 µg 1 mg
CTGrade GMP rh IL-7	500-07	50 µg 100 µg 1 mg
CTGrade GMP rh IL-15	500-08	50 µg 100 µg 1 mg
CTGrade GMP rh IL-21	500-09	50 µg 100 µg 1 mg
CTGrade GMP rh GM-CSF	500-11	50 µg 100 µg 1 mg
CTGrade GMP rh M-CSF	500-12	50 µg 100 µg 1 mg
CTGrade GMP rh EGF	500-14	50 µg 100 µg 1 mg
CTGrade GMP rh IL-10	500-16	50 µg 100 µg 1 mg
CTGrade rh IGF-1	500-22	50 µg 100 µg 1 mg
CTGrade GMP rh PDGF-AA	500-23	50 µg 100 µg 1 mg

Shenandoah CTGrade GMP Recombinant Proteins

Product Description	Catalog #	Size
CTGrade GMP rh PDGF-BB	500-25	50 µg 100 µg 1 mg
CTGrade rh IFN-gamma	500-28	50 µg 100 µg 1 mg
CTGrade rh IFN-alpha 2A	500-30	50 µg 100 µg 1 mg

Shenandoah Recombinant Proteins

rh - Recombinant Human (100 series)

rm - Recombinant Mouse (200 series)

rr - Recombinant Rat (300 series)

rp - Recombinant Porcine (400 series)

rgp - Recombinant Guinea Pig (400 series)

r - Recombinant Macaque (400 series)

rc - Recombinant Canine (400 series)

re - Recombinant Equine (400 series)

r/h/m - Multi Species (800 series)

Shenandoah Recombinant Human (rh) Proteins (100 Series)

Product Description	Catalog #	Size
rh BDNF (AF)	100-01AF	10 µg 100 µg 500 µg 1 mg
rh GDNF (AF)	100-02AF	10 µg 100 µg 500 µg 1 mg
rh M-CSF (AF)	100-03AF	10 µg 100 µg 500 µg 1 mg
rh SCF (AF)	100-04AF	10 µg 100 µg 500 µg 1 mg
rh Exodus-2 / CCL21	100-06	5 µg 20 µg 100 µg 500 µg 1 mg
rh EG-VEGF (AF)	100-07AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh GM-CSF (AF)	100-08AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-4 (AF)	100-09AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IL-6 (AF)	100-10AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-7 (AF)	100-11AF	10 µg 100 µg 500 µg 1 mg
rh IL-2 (AF)	100-12AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh MCP-1 / CCL2	100-13	5 µg 20 µg 100 µg 500 µg 1 mg
rh IGF-II (AF)	100-14AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh MIP-1 α / CCL3	100-15	5 µg 20 µg 100 µg 500 µg 1 mg
rh PDGF-AA (AF)	100-16AF	10 µg 100 µg 500 µg 1 mg
rh PDGF-AB (AF)	100-17AF	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh PDGF-BB (AF)	100-18AF	10 µg 100 µg 500 µg 1 mg
rh RANK Ligand (AF)	100-19AF	10 µg 100 µg 500 µg 1 mg
rh SDF-1α	100-20	10 µg 100 µg 100 µg 500 µg 1 mg
rh FLT-3 Ligand (AF)	100-21AF	10 µg 100 µg 500 µg 1 mg
rh Myostatin (AF)	100-22AF	10 µg 100 µg 500 µg 1 mg
rh Artemin	100-23	5 µg 20 µg 100 µg 500 µg 1 mg
rh BAFF / BLyS (FAF)	100-24AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh CD40-Ligand (AF)	100-25AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh EGF (AF)	100-26AF	100 µg 500 µg 1 mg 5 mg
rh BCA-1 / CXCL13	100-27	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh FGF-basic 147 / FGF-2 (AF)	100-28AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-acidic / FGF-1 (AF)	100-29AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh Galectin-1 (AF)	100-30AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-4 (AF)	100-31AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh GRO-α / CXCL1	100-32	5 µg 25 µg 100 µg 500 µg 1 mg
rh NT-4	100-33	5 µg 25 µg 100 µg 500 µg 1 mg
rh IGF-I (AF)	100-34AF	20 µg 100 µg 1 mg 5 mg
rh TNFR-1	100-35	5 µg 20 µg 100 µg 500 µg 1 mg
rh Chemrin	100-36	5 µg 25 µg 100 µg 500 µg 1 mg
rh Leptin (AF)	100-37AF	1 mg 5 mg 10 mg 200 µg

Product Description	Catalog #	Size
rh B-NGF (AF)	100-38AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh TGF-β 1	100-39	5 µg 20 µg 100 µg 500 µg 1 mg
rh Growth Hormone (AF)	100-40AF	100 µg 500 µg 1 mg 5 mg 10 mg
rh Follistatin	100-41	5 µg 20 µg 100 µg 500 µg 1 mg
rh TARC / CCL17	100-42	5 µg 20 µg 100 µg 500 µg 1 mg
rh VEGF-165 (AF)	100-44AF	10 µg 100 µg 500 µg 1 mg
rh Prolactin	100-45	10 µg 50 µg 100 µg 500 µg 1 mg
rh NRG1-β (AF)	100-46AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh LIF (AF)	100-47AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-35	100-49	10 µg 100 µg

Product Description	Catalog #	Size
rh Visfatin	100-50	5 µg 25 µg 100 µg 500 µg 1 mg
rh IFN-α 2b	100-52	20 µg 100 µg 500 µg 1 mg 250 µg
rh IFN-α 2a	100-54	20 µg 100 µg 500 µg 1 mg 250 µg
rh PTN (AF)	100-55AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh OSM (AF)	100-56AF	10 µg 100 µg 500 µg 1 mg
rh CNTF (AF)	100-59AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh CTGF	100-60	5 µg 20 µg 100 µg 500 µg 1 mg
rh FGF-22	100-68	5 µg 20 µg 100 µg 500 µg 1 mg
rh GDF-5	100-71	10 µg 50 µg 100 µg 500 µg 1 mg
rh G-CSF (AF)	100-72AF	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IFN- γ (AF)	100-77AF	20 μ g 100 μ g 500 μ g 1 mg 250 μ g
rh IL-3 (AF)	100-80AF	10 μ g 100 μ g 500 μ g 1 mg
rh PSP (AF)	100-81AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-9	100-82	10 μ g 100 μ g 500 μ g 1 mg
rh IL-10 (AF)	100-83AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-11 (AF)	100-84AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-13	100-85	10 μ g 100 μ g 500 μ g 1 mg
rh IL-15 (AF)	100-86AF	10 μ g 100 μ g 500 μ g 1 mg
rh IL-17A	100-87	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rh IL-19 (AF)	100-88AF	10 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rh IL-20	100-89	10 μ g 100 μ g 500 μ g 1 mg
rh IL-21 (AF)	100-90AF	10 μ g 500 μ g 1 mg
rh IL-22	100-91	10 μ g 100 μ g 500 μ g 1 mg
rh Resistin	100-107	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rh TNF- α (AF)	100-111AF	10 μ g 50 μ g 100 μ g 500 μ g 1 mg
rh TRAIL	100-115	10 μ g 50 μ g 100 μ g 500 μ g 1 mg
rh VEGF-121 (AF)	100-116AF	10 μ g 100 μ g 500 μ g 1 mg
rh GRO- β / CXCL2	100-123	10 μ g 100 μ g 500 μ g 1 mg
rh IP-10 / CXCL10	100-127	5 μ g 25 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rh I-TAC / CXCL11	100-128	5 µg 20 µg 100 µg 500 µg 1 mg
rh MCP-2 / CCL8	100-130	10 µg 100 µg 500 µg 1 mg
rh MCP-3 / CCL7	100-131	10 µg 100 µg 500 µg 1 mg
rh MCP-4 / CCL18	100-132	5 µg 20 µg 100 µg 500 µg 1 mg
rh MIP-1 β / CCL4	100-134	10 µg 100 µg 500 µg 1 mg
rh MIP-3 β / CCL19	100-135	5 µg 20 µg 100 µg 500 µg 1 mg
rh MIP-4 / CCL18	100-136	10 µg 100 µg 500 µg 1 mg
rh RANTES / CCL5	100-138	5 µg 20 µg 100 µg 500 µg 1 mg
rh Omentin (AF)	100-140AF	10 µg 100 µg 500 µg 1 mg
rh Myostatin Propeptide	100-142	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IL-16	100-144	10 µg 100 µg 500 µg 1 mg
rh IL-33	100-145	10 µg 100 µg 500 µg 1 mg
rh FGF-basic 154 / FGF-2 (AF)	100-146AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh MIP-3 α / CCL20	100-147	5 µg 20 µg 100 µg 500 µg 1 mg
rh FGF-21 (AF)	100-148AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-17E / (IL-25)	100-149	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-32 α	100-151	10 µg 100 µg 500 µg 1 mg
rh IL-17F (AF)	100-152AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh MIF	100-153	5 µg 25 µg 100 µg 500 µg 1 mg
rh Galectin-3	100-154	10 µg 50 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh ACRP-30 (AF)	100-156AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh RELM-β (AF)	100-160AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-17AF Heterodimer	100-161	5 µg 25 µg 100 µg 500 µg 1 mg
rh EBI3 subunit (IL-27 / IL-35) (AF)	100-162AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh Procalcitonin	100-164	10 µg 100 µg 500 µg 1 mg
rh TSLP	100-165	10 µg 100 µg 500 µg 1 mg
rh IL-1β (AF)	100-167AF	10 µg 100 µg 500 µg 1 mg
rh SHH	100-168	5 µg 25 µg 100 µg 500 µg 1 mg
rh IL-29	100-169	5 µg 20 µg 100 µg 500 µg 1 mg
rh GRO-γ / CXCL3	100-170	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh GDF-15 (AF)	100-171AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh GDF-15-D mutant	100-172	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-1α / IL-1F1 (AF)	100-173AF	10 µg 100 µg 500 µg 1 mg
rh Fractalkine / CX-3CL1	100-174	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-8 / CXCL8	100-175	5 µg 25 µg 100 µg 500 µg 1 mg
rh Eotaxin / CCL11	100-178	5 µg 20 µg 100 µg 500 µg 1 mg
rh Eotaxin-3 / CCL26	100-179	5 µg 20 µg 100 µg 500 µg 1 mg
rh HB-EGF (AF)	100-180AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-10 (AF)	100-183AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh MIG / CXCL9	100-184	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh ENA 78 / CXCL5	100-185	5 µg 20 µg 100 µg 500 µg 1 mg
rh FGF-7 / KGF (AF)	100-187AF	10 µg 100 µg 500 µg 1 mg
rh IL-5 (AF)	100-191AF	10 µg 100 µg 500 µg 1 mg
rh BD-3	100-192	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-1RA (AF)	100-195AF	20 µg 100 µg 500 µg 1 mg 250 µg
rh WISP-2 / CTGF-L	100-197AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh PIGF-3 (AF)	100-198AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh FGF-5 (AF)	100-200AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh FGF-6 (AF)	100-201AF	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh IL-31 (AF)	100-204AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh Amphiregulin (AF)	100-206AF	10 µg 50 µg 100 µg 500 µg 1 mg
rh R-Spondin-1	100-208	5 µg 25 µg 100 µg 500 µg 1 mg
rh TGF-α (AF)	100-209AF	25 µg 100 µg 500 µg 1 mg 250 µg
rh NAP-2 / CXCL7	100-210	5 µg 25 µg 100 µg 500 µg 1 mg
rh BMP-4	100-212	5 µg 20 µg 100 µg 500 µg 1 mg
rh IL-34	100-220	10 µg 50 µg 100 µg 500 µg 1 mg
rh IL-12	100-221	10 µg 50 µg 100 µg 500 µg 1 mg
rh IL-2 _{C126S} (AF)	100-222AF	10 µg 50 µg 100 µg 1 mg
rh Noggin	100-224	10 µg 50 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Mouse (rm) Proteins (200 Series)

Product Description	Catalog #	Size
rm IL-3 (AF)	200-01AF	10 µg 100 µg 500 µg 1 mg
rm IL-6 (AF)	200-02AF	10 µg 100 µg 500 µg 1 mg
rm IL-7 (AF)	200-03AF	10 µg 100 µg 500 µg 1 mg
rm RANK Ligand (AF)	200-04AF	10 µg 100 µg 500 µg 1 mg
rm IGF-I	200-05	10 µg 50 µg 100 µg 500 µg 1 mg
rm FLT-3 Ligand (AF)	200-06AF	10 µg 100 µg 500 µg 1 mg
rm M-CSF (AF)	200-08AF	10 µg 100 µg 500 µg 1 mg
rm SCF (AF)	200-09AF	10 µg 100 µg 500 µg 1 mg
rm β-NGF (AF)	200-11AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm FGF-basic / FGF-2 (AF)	200-12AF	10 µg 50 µg 100 µg 500 µg 1 mg
rm FGF-9 (AF)	200-13AF	10 µg 100 µg 500 µg 1 mg
rm G-CSF	200-14	10 µg 100 µg 500 µg 1 mg
rm GM-CSF (AF)	200-15AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm IFN-γ (AF)	200-16AF	20 µg 100 µg 500 µg 1 mg 250 µg
rm IL-2 (AF)	200-17AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-4 (AF)	200-18AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-5 (AF)	200-20AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-13	200-22	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm GRO- α / CXCL1	200-23	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm Follistatin	200-24	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm IL-12	200-25	10 μ g 100 μ g 500 μ g 1 mg
rm Leptin (AF)	200-26AF	1 mg 5 mg 10 mg 200 μ g
rm RELM- α	200-28	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm Resistin	200-30	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm TNF- α (AF)	200-31AF	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm TPO (AF)	200-32AF	10 μ g 100 μ g 500 μ g 1 mg
rm LIF (AF)	200-33AF	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm VEGF-165	200-34	10 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rm Exodus-2 / CCL21	200-35	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm IL-33 (AF)	200-36AF	10 μ g 100 μ g 500 μ g 1 mg
rm GDNF (AF)	200-37AF	10 μ g 100 μ g 500 μ g 1 mg
rm IP-10 / CXCL10	200-38	5 μ g 25 μ g 100 μ g 500 μ g 1 mg
rm MCP-1 / CCL2	200-39	10 μ g 100 μ g 500 μ g 1 mg
rm MCP-3 / CCL7	200-40	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-1 α / CCL3	200-42	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-1 β / CCL4	200-43	10 μ g 100 μ g 500 μ g 1 mg
rm MIP-3 β / CCL19	200-44	5 μ g 20 μ g 100 μ g 500 μ g 1 mg
rm SDF-1 α / CXCL12	200-46	10 μ g 100 μ g 500 μ g 1 mg

Product Description	Catalog #	Size
rm IL-16	200-49	10 µg 100 µg 500 µg 1 mg
rm IL-27/p28 subunit (IL-27)	200-50AF	10 µg 100 µg 500 µg 1 mg
rm MIP-3 α / CCL20	200-51	5 µg 20 µg 100 µg 500 µg 1 mg
rm VEGF-120	200-52	10 µg 100 µg 500 µg 1 mg
rm EGF (AF)	200-53AF	100 µg 500 µg 1 mg 5 mg
rm PDGF-AA	200-54	10 µg 100 µg 500 µg 1 mg
rm SHH	200-55	5 µg 25 µg 100 µg 500 µg 1 mg
rm EBI3 subunit (IL-27 / IL-35)	200-57	10 µg 100 µg 500 µg 1 mg
rm PDGF-BB	200-58	10 µg 100 µg 500 µg 1 mg
rm IL-17A (AF)	200-59AF	5 µg 25 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm IL-17E (AF)	200-60AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-17AF Heterodimer	200-61	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-17F (AF)	200-62AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm MCP-2 / CCL8	200-63	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-11 (AF)	200-64AF	10 µg 100 µg 500 µg 1 mg
rm SDF-1 β / CXCL12	200-67	10 µg 100 µg 500 µg 1 mg
rm IL-1 β	200-68	10 µg 100 µg 500 µg 1 mg
rm RELM-β	200-69	5 µg 25 µg 100 µg 500 µg 1 mg
rm IL-21 (AF)	200-70AF	10 µg 100 µg 500 µg 1 mg
rm IL-31 (AF)	200-71AF	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm IL-19 (AF)	200-75AF	10 µg 100 µg 500 µg 1 mg
rm IL-22 (AF)	200-77AF	10 µg 100 µg 500 µg 1 mg
rm MIF (AF)	200-78AF	5 µg 25 µg 100 µg 500 µg 1 mg
rm MIP-2 / CXCL12	200-80	5 µg 20 µg 100 µg 500 µg 1 mg
rm IL-36 γ (AF)	200-81AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rm IL-10 (AF)	200-84AF	10 µg 100 µg 500 µg 1 mg
rm IGF-II (AF)	200-86AF	10 µg 50 µg 100 µg 500 µg 1 mg
rm IL-1α / IL-1F1 (AF)	200-87AF	5 µg 20 µg 100 µg 500 µg 1 mg
rm RELM γ (AF)	200-89AF	5 µg 25 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Rat (rr) Proteins (300 Series)

Product Description	Catalog #	Size
rr IGF-I	300-01	10 µg 50 µg 100 µg 500 µg 1 mg
rr FGF-basic / FGF-2 (AF)	300-02AF	10 µg 50 µg 100 µg 500 µg 1 mg
rr GM-CSF	300-03	5 µg 20 µg 100 µg 500 µg 1 mg
rr IFN-γ	300-04	20 µg 100 µg 500 µg 1 mg 250 µg
rr EGF	300-05	20 µg 100 µg 500 µg 1 mg 250 µg
rr MCP-3 / CCL7	300-07	10 µg 100 µg 500 µg 1 mg
rr IL-6 (AF)	300-09AF	10 µg 100 µg 500 µg 1 mg
rr GDNF (AF)	300-10AF	10 µg 100 µg 500 µg 1 mg
rr Prolactin (AF)	300-11AF	10 µg 50 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rr Leptin	300-14	1 mg 5 mg 10 mg 200 µg
rr TNF-α	300-18	5 µg 20 µg 100 µg 500 µg 1 mg
rr MCP-1 / CCL2	300-22	10 µg 100 µg 500 µg 1 mg
rr MIP-1 α / CCL3	300-23	5 µg 20 µg 100 µg 500 µg 1 mg
rr IL-17A	300-24	5 µg 25 µg 100 µg 500 µg 1 mg
rr FGF-9	300-27	10 µg 100 µg 500 µg 1 mg
rr IL-17A	300-28	5 µg 25 µg 100 µg 500 µg 1 mg
rr IL-17AF Heterod- imer	300-29	5 µg 25 µg 100 µg 500 µg 1 mg
rr IL-1 β	300-30	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rr VEGF-165 (AF)	300-31AF	10 µg 100 µg 500 µg 1 mg
rr SCF	300-32	10 µg 100 µg 500 µg 1 mg
rr M-CSF (AF)	300-33AF	10 µg 100 µg 500 µg 1 mg
rr IL-10 (AF)	300-35AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rr IL-2 (AF)	300-38AF	20 µg 100 µg 500 µg 1 mg
rr IL-3 β (AF)	300-39AF	5 µg 25 µg 100 µg 500 µg 1 mg
rr SHH (AF)	300-40AF	5 µg 25 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Porcine, Guinea Pig, Macaque, Canine, and Equine Proteins (400 Series)

rp - Recombinant Porcine

rgp - Recombinant Guinea Pig

r - Recombinant Macaque

rc - Recombinant Canine

re - Recombinant Equine

Product Description	Catalog #	Size
rgp IP-10 / CXCL10	400-02	5 µg 25 µg 100 µg 500 µg 1 mg
rp IL-8 / CXCL8 (AF)	400-03AF	5 µg 20 µg 100 µg 500 µg 1 mg
r EBI3 subunit (IL-27 / IL-35)	400-07	20 µg 50 µg 500 µg 1 mg 250 µg
rp FLT-3 Ligand (AF)	400-08AF	5 µg 25 µg 100 µg 500 µg 1 mg
rc IL-4 (AF)	400-09AF	5 µg 25 µg 100 µg 500 µg 1 mg
rp IL-4 (AF)	400-10AF	5 µg 20 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rc IL-2 (AF)	400-11AF	5 µg 25 µg 100 µg 500 µg 1 mg
rp GM-CSF (AF)	400-12AF	5 µg 20 µg 100 µg 500 µg 1 mg
rc GM-CSF (AF)	400-14AF	5 µg 20 µg 100 µg 500 µg 1 mg
rp IL-2 (AF)	400-15AF	5 µg 20 µg 100 µg 500 µg 1 mg
re PDGF-BB (AF)	400-17AF	5 µg 20 µg 100 µg 500 µg 1 mg
re VEGF-165 (AF)	400-18AF	5 µg 20 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Multi Species (rh/m/r) Proteins (800 Series)

rh/m/r - Recombinant Human / Mouse / Rat

rh - Recombinant Human

rh/m - Recombinant Human / Mouse

rm/r - Recombinant Mouse / Rat

rh/f - Recombinant Human / Feline

Product Description	Catalog #	Size
rh/m/r Activin-A (AF)	800-01AF	10 µg 100 µg 500 µg 1 mg
rh/m/r BMP-2 (AF)	800-02AF	10 µg 100 µg 500 µg 1 mg
rh/m FGF-8 (AF)	800-03AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh/m/r GDF-11 (AF)	800-04AF	5 µg 20 µg 100 µg 500 µg 1 mg
rh/m IHH (AF)	800-05AF	5 µg 25 µg 100 µg 500 µg 1 mg
rh/m NT-3 (AF)	800-06AF	10 µg 100 µg 500 µg 1 mg

Product Description	Catalog #	Size
rh/m TGF-β 3 (AF)	800-07AF	10 µg 100 µg 500 µg 1 mg
rm/r RANTES / CCL5	800-08	5 µg 20 µg 100 µg 500 µg 1 mg
rh/f SDF-1 β	800-09	10 µg 100 µg 500 µg 1 mg
rm/r FGF-acidic / FGF-1	800-10	10 µg 50 µg 100 µg 500 µg 1 mg
rh/m TGF-β 3 (AF)	800-11AF	10 µg 100 µg 500 µg 1 mg

Shenandoah Recombinant Protein Bundles

Product Description	Catalog #	Size
Human Monocyte/DC PB	PB-500-01	100 µg of rh IL-4 100 µg of rh GM-CSF
Mouse Monocyte/DC PB	PB-500-02	100 µg of rh IL-4 100 µg of rm GM-CSF
Human HSC Expansion PB	PB-500-03	10 µg of rh SCF 10 µg (2 x 5 µg) of rh TPO (CHO-derived) 10 µg of rh FLT-3 Ligand
Mouse HSC Expansion PB	PB-500-04	10 µg of rm SCF 10 µg of rm TPO 10 µg of rm FLT-3 Ligand
Human HPC Expansion PB	PB-500-07	10 µg rh SCF 10 µg rh FLT-3 Ligand 20 µg rh IL-6 10 µg rh IL-3
Mouse HPC Expansion PB	PB-500-08	10 µg of rm SCF 10 µg of rm FLT-3 Ligand 10 µg of rm IL-6 10 µg of rm IL-3
Human T REG Cell Polarizing PB	PB-500-09	1 mg of rh IL-2 5 µg of rh TGF-β 1
Mouse T REG Cell Polarizing PB	PB-500-10	100 µg of rm IL-2 5 µg of rh TGF-β 1
Human TH17 Cell Polarizing PB	PB-500-11	20 µg of rh IL-6 5 µg of rh TGF-β 1
Human TH17 Cell Polarizing PLUS PB	PB-500-12	20 µg of rh IL-6 5 µg of rh TGF-β 1 10 µg of rh IL-1β 100 µg of rh IL-21
Mouse TH17 Cell Polarizing PB	PB-500-13	2 x 10 µg of rm IL-6 5 µg of rh TGF-β 1
Mouse TH17 Cell Polarizing PLUS PB	PB-500-14	2 x 10 µg of rm IL-6 5 µg of rh TGF-β 1 10 µg of rm IL-1β 100 µg of rm IL-21
Human TH9 Cell Polarizing PB	PB-500-15	20 µg of rh IL-4 5 µg of rh TGF-β 1
Mouse TH9 Cell Polarizing PB	PB-500-16	20 µg of rm IL-4 5 µg of rh TGF-β 1
Human Neural SCE PB	PB-500-17	100 µg of rh EGF 100 µg of rh FGF-basic 154 / FGF-2
Mouse Neural SCE PB	PB-500-18	100 µg of rm EGF 100 µg of rm FGF-basic / FGF-2
Human Glioma Culture PB	PB-500-19	2 x 100 µg of rh EGF 500 µg of rh FGF-basic 154 / FGF-2 100 µg of rh PDGF-AA 100 µg of rh PDGF-BB
Mouse Glioma Culture PB	PB-500-20	2x 100 µg of rm EGF 200 µg of rm FGF-basic / FGF-2 100 µg of rm PDGF-AA 100 µg of rm PDGF-BB



Learn More About Our Cell and Gene Therapy Solutions

For new products, contact us at getinfo@fujifilm.com
or visit our website at fujifilmbiosciences.fujifilm.com/contact-us

Partners for *Life*



fujifilmbiosciences.fujifilm.com

PRIME-XV and CTGrade are registered trademarks of FUJIFILM Biosciences Inc. in various jurisdictions. All other trademarks are the property of their respective owners.
©2026 FUJIFILM Biosciences. Rev.03. Last updated on March 2026.

FUJIFILM Life Sciences Korea Co., Ltd.
한국후지필름라이프사이언스(주)

서울특별시 강남구 강남대로 308, 랜드마크타워 13F
Tel : 02-2038-6655
Fax : 02-2038-2461
E-mail : shm-flkr-contact@fujifilm.com