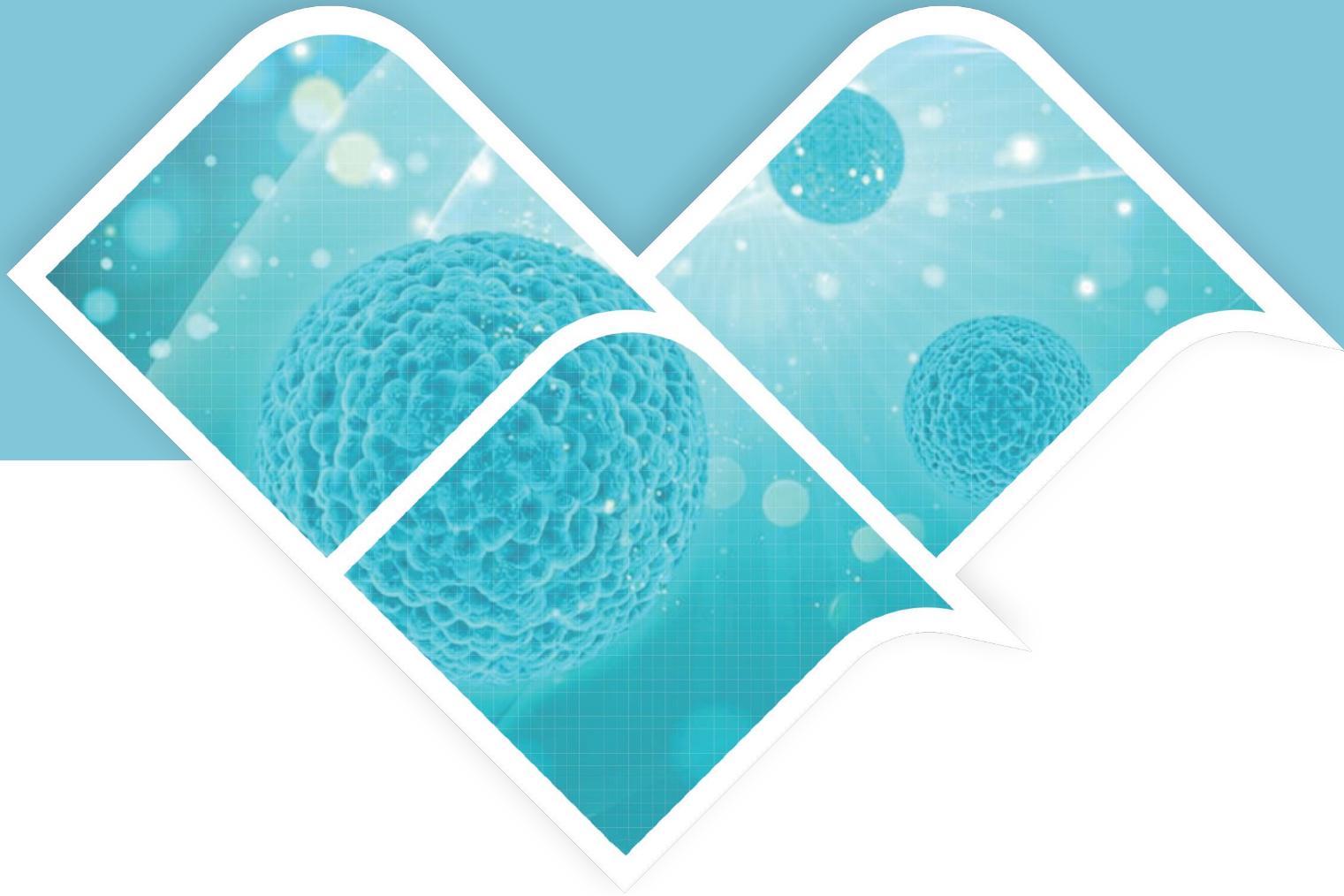


aladdin<sup>®</sup>

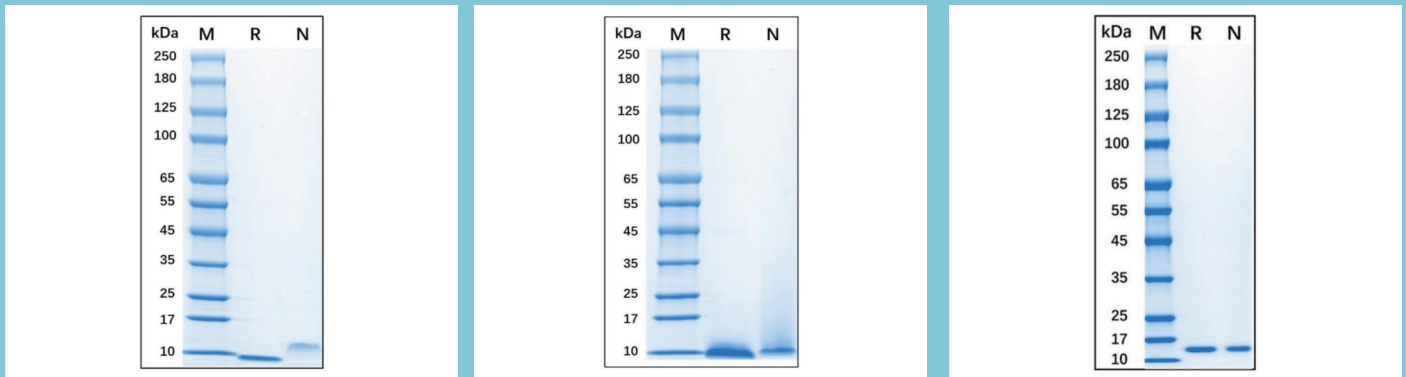


# Unlocking the Potential of Recombinant Proteins

A Guide to Cytokines, Growth Factors, and More

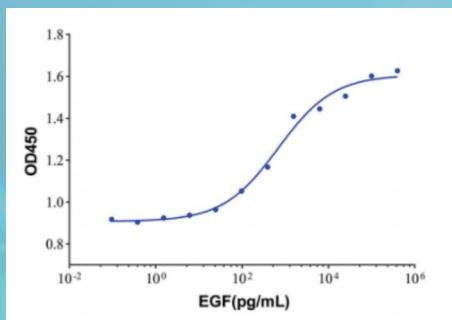
# High Purity, High Bioactivity, Low Endotoxin Level

## SDS-PAGE Verification

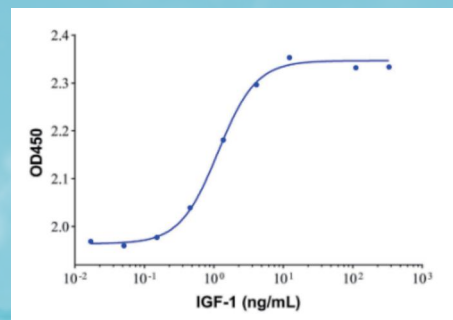


Results of SDS-PAGE under reductive (R) and non-reductive (N) conditions

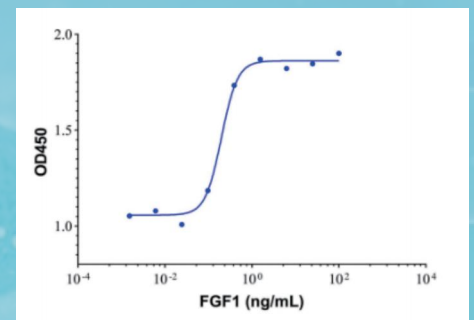
## Protein Bioactivity Assay



Recombinant Human EGF Protein (rp145392)-Protein Bioactivity Measured in a cell proliferation assay using BALB/3T3 mouse embryo fibroblasts cell line. The ED50 for this effect is typically <0.9ng/mL.



Recombinant Human IGF-1 Protein (rp147252)-Protein Bioactivity Measured in a cell proliferation assay using MCF7 breast cancer cell line. The ED50 for this effect is typically <4.6ng/mL.



Recombinant Human FGF1 Protein (rp145907)-Protein Bioactivity Measured in a cell proliferation assay using BALB/3T3 mouse embryo fibroblasts cell line in the presence of heparin. The ED50 for this effect is typically <0.5ng/mL.

Aladdin® strictly controls the endotoxin level in recombinant protein products to ensure the provision of safer, more effective, more stable, high-quality recombinant protein with lower immunogenicity for a wide range of medical and biopharmaceutical applications.

## Interleukin

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp147476	Recombinant Human IL-2 Protein	3558	CHO	≥95%	His tag	GMP
rp147632	Recombinant Human IL-7 Protein	3574	E.coli	>97%	No tag	Animal Free
rp147371	Recombinant Human IL-11 Protein	3589	E.coli	>96%	No tag	Animal Free
rp147384	Recombinant Human IL-12 Protein	3593&3592	CHO	>95%	No tag	Animal Free
rp147396	Recombinant Human IL-13 Protein	3596	E.coli	>98%	No tag	Animal Free
rp147435	Recombinant Human IL-17F Protein	112744	E.coli	>95%	No tag	Animal Free
rp154118	Recombinant Mouse IL-1 beta Protein	16176	E.coli	>95%	His tag	Animal Free
rp154174	Recombinant Mouse IL-2 Protein	16183	E.coli	>98%	His tag	Animal Free
rp154200	Recombinant Mouse IL-3 Protein	16187	E.coli	>97%	No tag	Animal Free
rp154228	Recombinant Mouse IL-4 Protein	16189	HEK293	>95%	His tag	GMP
rp154236	Recombinant Mouse IL-6 Protein	16193	E.coli	>96%	No tag	Animal Free
rp154245	Recombinant Mouse IL-7 Protein	16196	E.coli	>97%	No tag	Animal Free
rp154139	Recombinant Mouse IL-13 Protein	16163	E.coli	>98%	No tag	Animal Free
rp154218	Recombinant Mouse IL-36 alpha/IL-1F6 Protein	54448	E.coli	>95%	No tag	Animal Free

## Tumour Necrosis Factor

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp142386	Recombinant Human 4-1BB Ligand Protein	8744	E.coli	>95%	No tag	Animal Free
rp149600	Recombinant Human Osteoprotegerin Protein	4982	E.coli	>95%	No tag	Animal Free
rp152522	Recombinant Human TNF RII/TNFRSF1B Protein	7133	E.coli	>95%	His&GST tag	Carrier Free
rp152513	Recombinant Human TNFRSF1A Protein	7132	E.coli	>97%	No tag	Animal Free
rp152616	Recombinant Human TRAIL Protein	8743	E.coli	>95%	No tag	Animal Free
rp152506	Recombinant Human TNF-alpha Protein	7124	E.coli	≥95%	No tag	GMP
rp154759	Recombinant Mouse TNF-alpha Protein	21926	E.coli	>97%	No tag	Animal Free
rp155241	Recombinant Rat TNF-alpha Protein	24835	HEK293	>95%	His tag	Animal Free
rp143136	Recombinant Human BAFFR Protein	115650	E.coli	>95%	No tag	Animal Free

## Colony-Stimulating Factor

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp146523	Recombinant Human GM-CSF Protein	1437	E.coli	>98%	No tag	Animal Free
rp154365	Recombinant Mouse M-CSF Protein	12977	HEK293	>90%	His tag	Carrier Free
rp154630	Recombinant Mouse SCF Protein	17311	E.coli	>97%	No tag	Carrier Free
rp155067	Recombinant Rat GM-CSF Protein	116630	E.coli	>98%	No tag	Animal Free



## Chemokines

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp143723	Recombinant Human CCL1 Protein	6346	E.coli	>97%	No tag	Animal Free
rp145581	Recombinant Human CCL11/Eotaxin Protein	6356	E.coli	>97%	No tag	Animal Free
rp143727	Recombinant Human CCL14 Protein	6358	E.coli	>96%	No tag	Animal Free
rp148478	Recombinant Human CCL15 Protein	6359	E.coli	>97%	No tag	Animal Free
rp143734	Recombinant Human CCL21 Protein	6366	E.coli	>97%	No tag	Animal Free
rp143739	Recombinant Human CCL23/MPIF-1 Protein	6368	E.coli	>97%	No tag	Animal Free
rp143745	Recombinant Human CCL28 Protein	56477	E.coli	>96%	No tag	Animal Free
rp143746	Recombinant Human CCL4/MIP-1 beta Protein	6351	E.coli	>96%	No tag	Animal Free
rp148607	Recombinant Human CCL8/MCP-2 Protein	6355	E.coli	>96%	No tag	Animal Free
rp144868	Recombinant Human CXCL7/PBP Protein	5473	E.coli	>97%	No tag	Animal Free
rp144872	Recombinant Human CXCL9 Protein	4283	E.coli	>97%	No tag	Animal Free
rp145576	Recombinant Human Eotaxin 2 Protein	6369	E.coli	>97%	No tag	Animal Free
rp148223	Recombinant Human LD78 beta Protein	6349	E.coli	>97%	No tag	Animal Free
rp148631	Recombinant Human MDC Protein	6367	E.coli	>97%	No tag	Animal Free
rp150860	Recombinant Human RANTES Protein	6352	E.coli	>98%	No tag	Animal Free
rp151342	Recombinant Human SDF1 Protein	6387	E.coli	>95%	His tag	Animal Free
rp152075	Recombinant Human TARC/CCL17 Protein	6361	E.coli	>97%	No tag	Animal Free
rp153061	Recombinant Human Uteroglobin Protein	7356	E.coli	>98%	No tag	Animal Free
rp148449	Recombinant Human XCL1 Protein	6375	E.coli	>98%	No tag	Animal Free
rp168795	Recombinant Mouse CXCL1/KC Protein	14825	E.coli	>97%	No tag	Animal Free
rp153848	Recombinant Mouse CXCL10/IP-10 Protein	15945	E.coli	>97%	No tag	Animal Free
rp153852	Recombinant Mouse CXCL16 Protein	66102	E.coli	>98%	No tag	Animal Free
rp154359	Recombinant Mouse MCP2 Protein	20307	E.coli	>97%	No tag	Animal Free

## Growth Factor

Cat. No	Product Name	Gene ID	Expression System	Purity	Tag	Grade
rp145392	Recombinant Human EGF Protein	1950	Pichia pastoris	>95%	No tag	GMP
rp155969	Recombinant Human EGF Protein	1950	Pichia pastoris	≥95%	No tag	GMP
rp145479	Recombinant Human EG-VEGF Protein	84432	E.coli	>98%	No tag	Animal Free
rp145645	Recombinant Human Epigen Protein	255324	E.coli	>98%	No tag	Animal Free
rp145907	Recombinant Human FGF1 Protein	2246	E.coli	>95%	No tag	Animal Free
rp145913	Recombinant Human FGF10 Protein	2255	E.coli	>95%	No tag	Animal Free
rp145939	Recombinant Human FGF2 Protein	2247	E.coli	>95%	No tag	GMP

## Growth Factor

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp155946	Recombinant Human FGF2 Protein	2247	Oryza sativa	≥95%	No tag	GMP
rp146001	Recombinant Human FGFR2 Protein	2263	HEK293	>95%	Fc&His tag	Animal Free
rp146383	Recombinant Human GDF6 Protein	392255	E.coli	>95%	No tag	Animal Free
rp147252	Recombinant Human IGF-1 Protein	3479	Pichia pastoris	>95%	No tag	Animal Free
rp147276	Recombinant Human IGFBP3 Protein	3486	E.coli	>95%	His&SUMO tag	Carrier Free
rp147287	Recombinant Human IGFBP5 Protein	3488	E.coli	>96%	No tag	Animal Free
rp148028	Recombinant Human KGF Protein	2252	E.coli	>95%	No tag	Animal Free
rp155960	Recombinant Human KGF Protein	2252	Oryza sativa	≥95%	No tag	GMP
rp148245	Recombinant Human Leptin Protein	3952	E.coli	>97%	No tag	Animal Free
rp150316	Recombinant Human PLGF Protein	5228	E.coli	>97%	No tag	Animal Free
rp154542	Recombinant Mouse Prolactin Protein	19109	E.coli	>98%	No tag	Animal Free

## Others

Cat. No	Product Name	Gene ID	Source	Purity	Tag	Grade
rp143234	Recombinant Human beta-Defensin 1 Protein	1672	E.coli	>98%	No tag	Animal Free
rp143202	Recombinant Human Beta-Defensin 3 Protein	55894	E.coli	>98%	No tag	Animal Free
rp143894	Recombinant Human CD23 Protein	2208	E.coli	>95%	No tag	Animal Free
rp155944	Recombinant Human Fibronectin Protein	2335	Oryza sativa	≥95%	No tag	GMP
rp156087	Recombinant Human IFN-alpha-2B Protein	3440	Yeast	>98%	No tag	Animal Free
rp148684	Recombinant Human Melanoma Inhibitory Activity Protein	8190	E.coli	>97%	No tag	Animal Free
rp148808	Recombinant Human MIF protein	4282	E.coli	≥95%	No tag	Animal Free
rp149161	Recombinant Human Nectin-3 Protein	25945	HEK293	>98%	His tag	Animal Free
rp149203	Recombinant Human Neuritin Protein	51299	E.coli	>97%	No tag	Animal Free
rp151452	Recombinant Human Serum Amyloid A Protein	6288	E.coli	>98%	No tag	Animal Free
rp151779	Recombinant Human SPARC Protein	6678	E.coli	>98%	No tag	Animal Free
rp152239	Recombinant Human TFF2 Protein	7032	E.coli	>97%	No tag	Animal Free
rp155948	Recombinant Human Transferrin Protein	7018	Oryza sativa	≥95%	No tag	GMP
rp152656	Recombinant Human Trefoil Factor 3 Protein	7033	E.coli	>97%	No tag	Animal Free
rp153094	Recombinant Human VCAM1 Protein	7412	HEK293	>92%	His tag	Carrier Free
rp153757	Recombinant Mouse L-Selectin/CD62L Protein	20343	HEK293	>95%	Fc&His tag	Animal Free

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