



aladdin[®]
S C I E N T I F I C

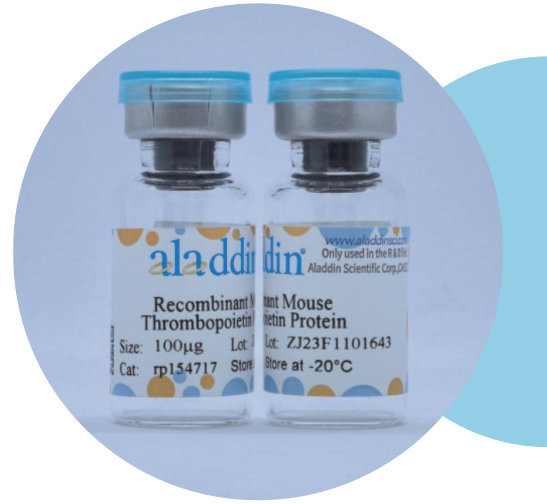
Animal-Free Protein

The Safe Choice for Medical Research and Development.

www.aladdinsci.com

Animal-Free Proteins

Animal-free proteins are recombinant proteins that do not involve any animal-derived materials in the production process. They are synthesized in an animal-free culture environment through advanced genetic engineering technology, ensuring the purity and stability of the product.



Related term analysis:

- Animal Component-Free: Products that do not contain any animal-derived ingredients.
- Animal-Derived: Ingredients taken directly from animal sources, which may carry related animal components.
- Animal-Free: Products that do not contain any animal-derived ingredients and have not been exposed to animal-derived reagents or equipment during production.

Aladdin has a strict definition of animal-free ingredients:

- Produced in a strict animal-free laboratory
- Dedicated and controlled animal-free facilities
- Prequalified animal-free raw materials
- Animal-free culture media used during production
- Strict control at any stage of the production process to ensure that the protein is not potentially contaminated by animal ingredients

Recombinant Human GM-CSF Protein

Cat.No.rp146523

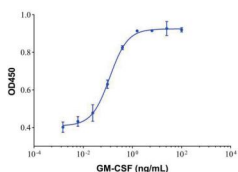
Basic Description

Expression System	<i>E.coli</i>
Species	Human
Amino Acids	18-144 aa
Purity	< 98% (SDS-PAGE, HPLC)
Endotoxin Concentration	< 0.01 EU/ μ g
Bioactivity	The ED ₅₀ for this effect is typically < 0.2 ng/mL
Protein Tag	No tag
Carrier Free	Yes
Accession #	P04141
Predicted molecular weigh	14.5 kDa
SDS-PAGE	13.7 kDa, under reducing conditions; 12.3 kDa, under non-reducing conditions.

Product Specifications

Form	Lyophilized
Storage Temp	Store at -20°C, avoid repeated freezing and thawing.
Stability And Storage	Upon delivery aliquot, store at -20°C, avoid freeze/thaw cycles. Lyophilized with no additives. This product is an active protein and may elicit a biological response in vivo, handle with caution.

Data



Recombinant Human GM-CSF Protein (rp146523)-Protein Bioactivity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically < 0.2 ng/mL.



Recombinant Human GM-CSF Protein (rp146523)-SDS-PAGE

3 μ g/lane of Recombinant Human GM-CSF Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie® Blue staining, showing a single band at 13.7 kDa.

Product Name	Cat.No.	Expression System	Protein Tag	Purity
Recombinant Human 4-1BB Ligand Protein	rp142386	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human BAFFR/ TNFRSF13C Protein	rp143136	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human beta-Defensin 1 Protein	rp143234	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human Beta-Defensin 3 Protein	rp143202	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human CCL1 Protein	rp143723	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CCL4/MIP-1 beta Protein	rp143746	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human CCL4L1 Protein	rp143752	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CCL8/MCP-2 Protein	rp148607	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human CCL11/Eotaxin Protein	rp145581	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CCL14 Protein	rp143727	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human CCL15 Protein	rp148478	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CCL25 Protein	rp143741	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CD40 Ligand/ TNFSF5 Protein	rp152636	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE&HPLC)
Recombinant Human CXCL5 Protein	rp144864	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CXCL7/PBP Protein	rp144868	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human CXCL9 Protein	rp144872	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human EGF Protein	rp185510	<i>Pichia pastoris</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human EGFR Protein	rp176273	293F	C-His tag	≥ 95%(SDS-PAGE)
Recombinant Human EG-VEGF Protein	rp145479	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human Eotaxin 2 Protein	rp145576	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Epigen Protein	rp145645	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human FGF basic/FGF2/ bFGF(155aa) Protein	rp145939	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant human FGF1 protein	rp145907	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human FGF19 Protein	rp145934	<i>E.coli</i>	His	≥ 98%(SDS-PAGE)

Product Name	Cat.No.	Expression System	Protein Tag	Purity
Recombinant Human FGF8 Protein	rp145972	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human Galectin 3 Protein	rp146266	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human GDNF Protein	rp146397	HEK293	No tag	≥ 97%(SDS-PAGE)
Recombinant Human GM-CSF Protein	rp146523	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Mouse GM-CSF Protein	rp154039	293F	N-His tag	≥ 95%(SDS-PAGE)
Recombinant Porcine GM-CSF Protein	rp168452	293F	C-His tag	≥ 95%(SDS-PAGE)
Recombinant Rat GM-CSF Protein	rp155067	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human GRO Gamma Protein	rp146664	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Growth Hormone R Protein	rp146679	293F	Fc&His tag	≥ 95%(SDS-PAGE)
Recombinant Human HBEGF/DTR Protein	rp146797	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human IFN-alpha-2B Protein	rp156087	<i>Yeast</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human IGF-1 Protein	rp147252	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human IGF2 Protein	rp147265	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human IGFBP5 Protein	rp147287	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human IL-1 beta Protein	rp147346	<i>E.coli</i>	His tag	≥ 95%(SDS-PAGE)
Recombinant Human IL-11 Protein	rp147371	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human IL-13 Protein	rp147396	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Mouse IL-13 Protein	rp154139	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human IL-15 Protein	rp147404	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE)
Recombinant Human IL-21 Protein	rp147498	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Interferon alpha 1 Protein	rp147742	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human KGF/FGF-7 Protein	rp148028	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human LD78 beta Protein	rp148223	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Leptin Protein	rp148245	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human MDC Protein	rp148631	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)

Product Name	Cat.No.	Expression System	Protein Tag	Purity
Recombinant Human Melanoma Inhibitory Activity Protein	rp148684	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Neurtin Protein	rp149203	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Parathyroid Hormone Protein	rp149785	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human PLGF Protein	rp150316	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human PTN Protein	rp150679	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Human RANK Protein	rp150851	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE)
Recombinant Human RANTES Protein	rp150860	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human Serpin F1/PEDF Protein	rp150051	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Serum Amyloid A Protein	rp151452	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human SPARC Protein	rp151779	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human TARC/CCL17 Protein	rp152075	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human TFF2 Protein	rp152239	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Thymosin beta 4 Protein	rp152337	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human TNF-alpha Protein	rp152506	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Mouse TNF-alpha Protein	rp154759	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human TNFRSF1A Protein	rp152513	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human TRAIL Protein	rp152616	<i>E.coli</i>	No tag	≥ 95%(SDS-PAGE)
Recombinant Human TRAIL R2/ TNFRSF10B Protein	rp145269	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human TSC-1 Protein	rp152763	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Human Uteroglobin Protein	rp153061	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Human XCL1 Protein	rp148449	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Mouse CXCL1/KC Protein	rp168795	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Mouse CXCL10/IP-10 Protein	rp153848	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Mouse CXCL16 Protein	rp153852	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)

Product Name	Cat.No.	Expression System	Protein Tag	Purity
Recombinant Mouse FGF-21 Protein	rp153970	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Mouse IL-3 Protein	rp154200	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE)
Recombinant Mouse IL-6 Protein	rp154236	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant Rat IL-6 Protein	rp155124	<i>E.coli</i>	No tag	≥ 96%(SDS-PAGE&HPLC)
Recombinant mouse IL-7 protein	rp154245	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE)
Recombinant Mouse MCP2 Protein	rp154359	<i>E.coli</i>	No tag	≥ 97%(SDS-PAGE&HPLC)
Recombinant Mouse Prolactin Protein	rp154542	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE&HPLC)
Recombinant Rat Prolactin Protein	rp155196	<i>E.coli</i>	No tag	≥ 98%(SDS-PAGE)

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