

GM-CSFR alpha Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	GM-CSF-R- α ; GMR- α ; GMR-alpha; GM-CSF-R-alpha; CSF2R; GMCSFR-alpha; CSF2RAY; GMCSFR- α ; GMR; CSF2RAX; CSF2RX; CDw116; SMDP4; GM-CSF R α Protein; CSF2RY; GMCSFR; CSF2RA; CD116
Protein Construction:	Glu23-Gly320
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15509-1
Molecular Weight:	37.7 kDa (predicted). Due to glycosylation, the protein migrates to 68-75 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Anti-GM-CSF R alpha Antibody, hFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human GM-CSF R alpha, His Tag with the EC50 of 7.7 ng/ml determined by ELISA.2. Biotinylated Human GM-CSF R alpha, His-Avi Tag captured on CM5 Chip via Anti-His Antibody can bind Human GM-CSF, No Tag with an affinity constant of 1.68 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	<p>It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.</p> <p><small>Actual storage temperature shall be subject to the COA.</small></p>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

In the first trimester, the GM-CSF-R was found to be present on villous cytotrophoblast and all populations of extravillous trophoblast. Expression by villous syncytiotrophoblast was weak or absent, but this increased markedly by term. GM-CSF-R were also expressed by fetal Hofbauer cells within the mesenchyme of the chorionic villi and by uterine glandular epithelium and decidual macrophages within maternal decidua.

Reference

Jokhi PP, et al. Demonstration of the low affinity alpha subunit of the granulocyte-macrophage colony-stimulating factor receptor (GM-CSF-R alpha) on human trophoblast and uterine cells. J Reprod Immunol. 1994 Mar;26(2):147-64. doi: 10.1016/0165-0378(94)90037-x. PMID: 7932390.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481