

Bioactive

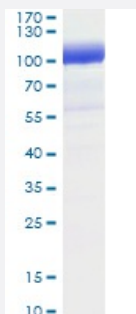
HuPro®

CSFR3 (Human) Recombinant Protein

Catalog # P6762

Size 100 ug

Applications



CSFR3 (Human) Recombinant Protein (Cat #P6762) was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-105 kDa.

Result of activity analysis

Result of activity analysis

Specification

| | |
|-----------------------------|---|
| Product Description | Human CSFR3 (NP_000751.1, 25 a.a. - 621 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells. |
| Host | Human |
| Theoretical MW (kDa) | 90-105 |
| Form | Lyophilized |
| Preparation Method | Mammalian cell (HEK293) expression system |
| Purification | Ni-sepharose purification |
| Purity | > 95% by SDS-PAGE |

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|-------------------------|--|
| Endotoxin Level | < 0.1 EU/ug |
| Activity | Measured by the ability to inhibit the GCSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED ₅₀ for this effect is typically 31.5-126 ng/mL. |
| Quality Control Testing | SDS-PAGE Stained with Coomassie Blue CSFR3 (Human) Recombinant Protein (Cat #P6762) was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-105 kDa. |
| Recommend Usage | SDS-PAGE The optimal working dilution should be determined by the end user. |
| Storage Buffer | Lyophilized from PBS, pH 7.4. |
| Storage Instruction | Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution to a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing. |
| Note | Result of activity analysis Result of activity analysis |

Applications

- SDS-PAGE

Gene Info — CSF3R

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|--------------------|--|
| Entrez GeneID | 1441 |
| Protein Accession# | Q99062 |
| Gene Name | CSF3R |
| Gene Alias | CD114, GCSFR |
| Gene Description | colony stimulating factor 3 receptor (granulocyte) |
| Omim ID | 138971 |
| Gene Ontology | Hyperlink |

Gene Summary

The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Four transcript variants encoding four different isoforms have been found for this gene, with three of the isoforms being membrane-bound and the other being secreted and soluble. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia. [provided by RefSeq]

Other Designations

CD114 antigen|OTTHUMP00000009703|OTTHUMP00000009704|OTTHUMP00000009705|colony stimulating factor 3 receptor|granulocyte colony stimulating factor receptor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)
- [Pathways in cancer](#)

Disease

- [Acute Disease](#)
- [Anemia](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Cell Transformation](#)
- [Chronic Disease](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Kidney Failure](#)
- [Leukemia](#)

- [Myelodysplastic Syndromes](#)
- [Neutropenia](#)
- [Respiratory Syncytial Virus Infections](#)