
Product Data Sheet

Product Name: CSF2RA Human, sf9

Cat. No.: GP20144

Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Colony Stimulating Factor 2 Receptor Alpha Subunit; Colony Stimulating Factor 2 Receptor; Alpha; Low-Affinity(Granulocyte-Macrophage); Alpha-GM-CSF Receptor; GM-CSF-R-Alpha; CD116 Antigen; GMCSFR-Alpha; GMR-Alpha; CDw116; CSF2RY; CSF2R; Granulocyte-Macrophage Colony-Stimulating Factor Receptor Subunit Alpha; Granulocyte-Macrophage Colony-Stimulating Factor Receptor Alpha Chain; GM-CSF Receptor Alpha Subunit; AlphaGMR; CSF2RAX; CSF2RAY; CSF2RX; GMCSFR; CD116; SMDP4; GMR.

Amino Acid Sequence ADPLIPEKSD LRTVAPASSL NVRFDSRTMN LSWDCQENTT FSKCFLTDKK
NRVVEPRLSN NECSCTFREI CLHEGVTFEV HVNTSQRGFQ QKLLYPNSGR
EGTAAQNFSC FIYNADLMNC TWARGPTAPR DVQYFLYIRN SKRRREIRCP
YYIQDSGTHV GCHLDNLSGL TSRNYFLVNG TSREIGIQFF DSLLDTKKIE
RFNPPSNVTV RCNTTHCLVR WKQPRTYQKL SYLDFQYQLD VHRKNTQPGT
ENLLINVSGD LENRYNFPSS EPRAKHSVKI RAADVRLINW SSWSEAIEFG
SDDGHHHHHH

Formulation CSF2RA protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

GM-CSF Receptor Alpha (CSF2RA) is the alpha subunit of the heterodimeric receptor for colony stimulating factor 2, a cytokine which controls the production, differentiation, and function of granulocytes and macrophages. CSFR2 is also a member of the cytokine family of receptors. In addition, this gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple transcript variants encoding various isoforms have been found for this gene, while some of the isoforms being membrane-bound and others

Caution: Product has not been fully validated for medical applications. For research use only.

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being soluble. Diseases associated with CSF2RA include surfactant metabolism dysfunction, pulmonary 4, and csf2ra-related pulmonary surfactant metabolism dysfunction.

Biological Activity

Measured by its ability to inhibit GM-CSF dependent proliferation of TF1 human erythroleukemic cells. The ED50 for this effect is less or equal to 10ug/ml in the presence of 0.5ng/ml GM-CSF.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CSF2RA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 310 amino acids (20-320a.a.) and having a molecular mass of 35.9kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CSF2RA is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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