

## 32-6322: CSF2RA Human, sf9

**Application :** Functional Assay

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, Colorectal, Colorectal cancer, Colon, rectum, Cancer, tumor

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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

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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

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

**Storage condition :** 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.

**Amino Acid :** ADPLIPEKSD LRTVAPASSL NVRFDSRTMN LSWDCQENTT FSKCFLTDKK NRVVEPRLSN NECSCTFREI CLHEGVTFEV HVNTSQRGFQ QKLLYPNSGR EGTAQNFSC FIYNADLMNC TWARGPTAPR DVQYFLYIRN SKRRREIRCP YYIQDSGTHV GCHLDNLSGL TSRNYFLVNG TSREIGIQFF DSLLDTKKIE RFNPPSNVTV RCNTTHCLVR WKQPRTYQKL SYLDFQYQLD VHRKNTQPGT ENLLINVSGD LENRYNFPSS EPRAKHSVKI RAADVRLNW SSWSEAEIEFG SDDGHHHHHH

### Application Note

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.