

Product Data Sheet

Product Name: CSF1R Protein, Human
Cat. No.: GC27027
Batch No.: 1

Product Data

Purity >98% Source
Physical Appearance solid Shipping C

Synonyms CSF1R []; HEK293, His-Fc; Macrophage colony-stimulating factor 1 receptor; CSF-1R; M-CSF-R; CD115; CSF1R; FMS

Amino Acid Sequence IPVIEPSVPELVVKGATVTLRCVGNCSVEWDGPPSPHWTLYS DGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAAIHLYVKDPPARPNVLAQEVVVF

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Introduction

CSF1R protein is ubiquitously found in mononuclear phagocytes, especially macrophages and monocytes, and is involved in a variety of biological processes. It induces the release of proinflammatory chemokines in response to IL34 and CSF1, contributing to innate immunity and inflammation. CSF1R Protein, Human (HEK293, His-Fc) is the recombinant human-derived CSF1R protein, expressed by HEK293, with C-hFc, C-His labeled tag. The CSF1R protein, particularly found in mononuclear phagocytes like macrophages and monocytes, is involved in various biological processes. It promotes the release of pro-inflammatory chemokines in response to IL34 and CSF1, contributing to innate immunity and inflammatory processes. Additionally, CSF1R is crucial for regulating osteoclast proliferation and differentiation, bone resorption, normal bone and tooth development. It is also required for normal fertility in both males and females, as well as for the development of milk ducts and acinar structures in the mammary gland during pregnancy.

Biological Activity

- 1. Measured by its ability to inhibit the M-CSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED₅₀ for this effect is 1.402 ng/mL in the presence of 1 ng/mL of Recombinant Human M-CSF. corresponding to a specific activity is 7.133×10⁵ units/mg.
- 2. Loaded CSF1R Protein, Human (HEK293, His-Fc) on HIS1K biosensor, can bind Axatilimab with an affinity constant of 1.467E-11 M as determined in BLI assay.

Stability

Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Background

CSF1R [] IL34 [] CSF1 [] CSF1R [], Human (HEK293, His-Fc) []
CSF1R [] HEK293 [] C-hFc, C-His []

CSF1R [] IL34 [] CSF1 [] CSF1R []

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