

Recombinant Mouse CSF2R Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51543

Size: 10ug, 100ug

Protein Name: Granulocyte-macrophage colony-stimulating factor receptor subunit alpha (GM-CSF-R-alpha) (GMCSFR-alpha) (GMR-alpha) (CD antigen CD116)

Synonym: Csf2ra, Csfgmra

UniProt ID: Q00941

UniProt Link: www.uniprot.org/uniprotkb/Q00941/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 388 AA

Molecular Weight: 42 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTSSHAMNITPLAQLALLFSTLLLPQTQALLAPTPDAGSALNLT FDPWTRTLTWACDTAAGNVTVTSC
CTVTSREAGIHRRVSPFGCRCWFRMMALHHGVTL DVNGTVGGAAAHWRLSFVNEGAAGSGAEN
LTCEIRAARFLSCAWREGPAAPADVRYSLRVLNSTGH DVARCMADPGDDVITQCIANDLSLLGSEAY
LVVTGRSGAGPVRFLDDVVATKALERLGPPRDVTASCNSSHCTVSWAPPSTWASLTARDFQFEVQ
WQSAEPGSTPRKVLVVEETRLAFPSPAPHGGHKVKVRAGDTRMKHWGEWSPAHPLEAEDTRVPG
ALLYAVTACAVLLCALALGVTCRRFEVTRRLFPP IPIGIRDKVSDDVRVNPETLRKDLLQP

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Granulocyte-macrophage colony-stimulating factor receptor subunit alpha (GM-CSF-R-alpha) (GMCSFR-alpha) (GMR-alpha) (CD antigen CD116) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Low affinity receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). Transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells.; [Isoform 2]: Contrary to isoform 1, does not trigger cell proliferation in response to GM-CSF.; [Isoform 3]: Contrary to isoform 1, does not trigger cell proliferation in response to GM-CSF.

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.