

Recombinant Mouse IL5RA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51314

Size: 10ug, 100ug

Protein Name: Interleukin-5 receptor subunit alpha (IL-5 receptor subunit alpha) (IL-5R subunit alpha) (IL-5R-alpha) (IL-5RA) (CD antigen CD125)

Synonym: Il5ra, Il5r

UniProt ID: P21183

UniProt Link: www.uniprot.org/uniprotkb/P21183/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 415 AA

Molecular Weight: 47 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MVPVLLILVGALATLQADLLNHKKFLLLPVNFTIKATGLAQVLLHWDPNPDQEQRHVDLEYHVKINA
PQEDEYDTRKTESKCVTPLHEGFAASVRTILKSSHTTLASSWVSAELKAPPGSPGTSVTNLTCTTHT
VVSSHHLRPYQVSLRCTLVVGKDAPEDTQYFLYYRFGVLTEKCQEYSRDALNRNTACWFPRTFIN
SKGFEQLAVHINGSSKRAAIKPFQDLFSPLAIDQVNPPRNVTVIESNSLYIQWEKPLSAFPDHCIFY
ELKIYNTKNGHIQKEKLIANKFISKIDDVSTYSIQVRAAVSSPCRMPGRWGEWSQPIYVGKERKSLVE
WHLIVLPTAACFVLLIFSLICRVCHLWTRLFPPVPAPKSNIKDLPVVTEYEKPSNETKIEVVHCVVEEVGF
EVMGNSTF

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 Interleukin-5 receptor subunit alpha (IL-5 receptor subunit alpha) (IL-5R subunit alpha) (IL-5R-alpha) (IL-5RA) (CD antigen CD125) 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: Cell surface receptor that plays an important role in the survival, differentiation, and chemotaxis of eosinophils (PubMed:1873482). Acts by forming a heterodimeric receptor with CSF2RB subunit and subsequently binding to interleukin-5. In unstimulated conditions, interacts constitutively with JAK2. Heterodimeric receptor activation leads to JAK2 stimulation and subsequent activation of the JAK-STAT pathway.

Subcellular Localization: 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.