

Recombinant Mouse I13R1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51135

Size: 10ug, 100ug

Protein Name: Interleukin-13 receptor subunit alpha-1 (IL-13 receptor subunit alpha-1) (IL-13R subunit alpha-1) (IL-13R-alpha-1) (IL-13RA1) (Interleukin-13-binding protein) (Novel cytokine receptor 4) (NR4) (CD antigen CD213a1)

Synonym: Il13ra1, Il13r, Il13ra

UniProt ID: O09030

UniProt Link: www.uniprot.org/uniprotkb/O09030/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 424 AA

Molecular Weight: 48 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MARPALLGELLVLLLWTATVGQVAAATEVQPPVTNLSVSVENLCTIIWTSWPPEGASPNCTLRYSF
FDDQQDKKIAPETHRKEELPLDEKICLQVGSQCSANESEKPSPLVKKCISPPEGDPESAVTELKCIWH
NLSYMKCSWLPGRNTSPDTHYTLYYWYSSLEKSRQCENIYREGQHACSFKLTKVEPSFEHQNVQI
MVKDNAGKIRPSCKIVSLTSYVKPDPPHIKHLKNGALLVQWKNPQNFRSRCLTYEVEVNNTQTDR
HNILEVEEDKCQNSESDRNMEGTSCFQLPGVLADAVYTVRVRVKTNKLCFDDNKLWSDWSEAQSIG
KEQNSTFYTTMLLTIPVFVAVAVIILLFYLKRLKIIIFPPIPDGKIFKEMFGDQNDLTHWKYDIYEKQS
KEETDSVVLINLKAAP

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-13 receptor subunit alpha-1 (IL-13 receptor subunit alpha-1) (IL-13R subunit alpha-1) (IL-13R-alpha-1) (IL-13RA1) (Interleukin-13-binding protein) (Novel cytokine receptor 4) (NR4) (CD antigen CD213a1) 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: Binds with low affinity to interleukin-13 (IL13). Together with IL4RA can form a functional receptor for IL13. Also serves as an alternate accessory protein to the common cytokine receptor gamma chain for interleukin-4 (IL4) signaling, but cannot replace the function of IL2RG in allowing enhanced interleukin-2 (IL2) binding activity (By similarity).

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.