

Recombinant Rat IL4RA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52495

Size: 10ug, 100ug

Protein Name: Interleukin-4 receptor subunit alpha (IL-4 receptor subunit alpha) (IL-4R subunit alpha) (IL-4R-alpha) (IL-4RA) (CD antigen CD124)

Synonym: Il4r, Il4ra

UniProt ID: Q63257

UniProt Link: www.uniprot.org/uniprotkb/Q63257/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 801 AA

Molecular Weight: 87 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGWLCTKFLSSVSCILLWVTGSGGIKVLGDPTCFSDYIRTSTCEWQLDSTVDCSSQLLLLDYRLLFEF
SENLTCTPKNSADTVVCQMAIEEPIQADTYWLELWSERGQLWQGSFKPSDNVKPPAPDNLTHTN
VSNALLLMWSNPYPSNNFLHKGGLICMVNISREDNPAEFKVYNVTYTEPKLSFPVNTLTSGVRYRARV
RVLSQSFPGIWSEWSPSITWYNHFQLPLLQRLPLGVSISCICILLFCLTCYFSIIKIKKIWWDQIPTPARS
PLAIIIQDTKVSLWEKQTRSQUESTKSRHWKTCLTKLLPCLLEHRVKKERESPKAAKTKPLQSPEKAG
WYPAEVSRVTLWPENVHVSVVRCMELFEAPVQNVVEEEDEEMVKGDLSMSPENSGGGFQESQADI
MARLTENLFSDLLGAENGGVGQSSMAESSLLPSESGQASTSWACFPTGPSETTCQVTGQQPPHP
DPERATGTACTQVPLVISDNPAYRSFSDFSPPAPNPGELASEQKQAGHLEEGDLLSPVDPHSSGPP
MQQAESWEQILHMSVLQHGTAGSTPAPTSQYQEFVQAVKQGASQDAGVPGVGPSPGDTGYKAFSS
LLSSSGVCTDTAAAGTDSGCGGYKPFQNPVNPQSPNSMPLFTFGLDMELPPSPLNSAPPNSTPECL
GLELGLKGGTWLKAPPPSEQVPKPFGDDLGLGIVYSSLTCHLCGHLKQHHSQEEDGQIHVVASPGC
GCCYDEKSPSLGNLSGTLESCPGEMSQEANLTLAPRTPSNLSGVGKGPGHSPVPSQTTEVPVGT
LGVTVS

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-4 receptor subunit alpha (IL-4 receptor subunit alpha) (IL-4R subunit alpha) (IL-4R-alpha) (IL-4RA) (CD antigen CD124) 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: Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2 (By similarity).; Isoform 2 (soluble form) inhibits IL4-induced spleen cell proliferation.

Subcellular Localization: Cell membrane; Single-pass type I membrane protein.; [Isoform 2]: Secreted .

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.