

Recombinant Mouse IL4RA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51289

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) [Cleaved into: Soluble interleukin-4 receptor subunit alpha (Soluble IL-4 receptor subunit alpha) (Soluble IL-4R-alpha) (sIL4Ralpha/prot) (IL-4-binding protein) (IL4-BP)]

Synonym: Il4r, Il4ra

UniProt ID: P16382

UniProt Link: www.uniprot.org/uniprotkb/P16382/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 810 AA

Molecular Weight: 88 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGR LCTKFLTSVGCLILLVLTGSGSIKVLGEPTCFSDYIRTSTCEWFLDSAVDCSSQLCLHYRLMFFE
FSENLTCIPRNSASTVCVCHMEMNRPVQSDRYQME LWA EHRQLWQGSFSPSGNVKPLAPDNLTLH
TNVSD EWL LTWN NLYPSNNLLYKDLISMVNISREDNPAEFIVYNVTYKEPRLSFPINILMSGVYYTARV
RVR SQIL TGTWSEWSPSITWYNHFQLPLIQRLPLGVTISCLCPLFCYFSITKIKKIWW DQIPTPAR
SPLVAIIIQDAQVPLWDKQTRSQUESTKYPHWKTCLDKLLPCLLKHRVKKKTDFPKAAPT KSLQSPGKA
GWCPMEVSRTVLWPENVSVSVVRCMELFEAPVQNV EEEEEDEIVKEDLSMSPENSGGCGFQESQA
DIMARLTENLFSDLLEAENGGLGQSALAESCSP LPSGSGQASVSWACLPMGPSE EATCQVTEQPSH
PGPLSGSPAQSAPTLACTQVPLVLADNPAYRSFSDCCSPAPNPGELAPEQQQADHLEEEEPSPAD
PHSSGPPMQPVESWEQILHMSVLQHGAAGSTPAPAGGYQEFVQAVKQGAAQDPGVPGVVRPSGD
PGYKAFSSLLSSNGIRGDTAAAGTDDGHGGYKPFQNPVPNQSPSSVPLFTFGLDTELSPLNSDP
PKSPPECLGLELGLKGGDWVKAPPPADQVPKPF GDDLFGFIVYSSLTCHLCGHLKQHHSQEEGGQ
SPIVASPGCGCCYDDRSPSLGSLSGALESCPEGIPPEANLMSAPKTPSNLSGEGKGPGHSPVPSQT
TEVPVGALGIAVS

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) [Cleaved into: Soluble interleukin-4 receptor subunit alpha (Soluble IL-4 receptor subunit alpha) (Soluble IL-4R-alpha) (sIL4Ralpha/prot) (IL-4-binding protein) (IL4-BP)] 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.

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.