

Recombinant Mouse IL23R Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51786

Size: 10ug, 100ug

Protein Name: Interleukin-23 receptor (IL-23 receptor) (IL-23R)

Synonym: IL23r

UniProt ID: Q8K4B4

UniProt Link: www.uniprot.org/uniprotkb/Q8K4B4/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 644 AA

Molecular Weight: 73 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSHLTLQLHVIALYVLFWRCHGGITSINCSGDMWVEPGEIFQMGMNVSIYCQEALKHCRPRNLYFY
KNGFKEEFDIRINRTTARIWYKGFSEPHAYMHCTAECPGHFQETLICGKDISSGHPPDAPSNLTCVI
YEYSGNMTCTWNTGKPTYIDTKYIVHVKSLETEEEQQYLASSYVKISTDSLQGSRKYLWVQAVNSL
GMENSQQLHVHLDDIVIPSASIISRAETTNDTVPKTIVYWKSKTMIEKVFCEMRYKTTTNQTWSVKEF
DANFTYVQQSEFYLEPDSKYVFQVRCQETGKRNWQPWSSPFVHQTSQETGKRNWQPWSSPFVH
QTSQTVSQVTAKSSHEPQKMEMLSATIFRGHPASGNHQDIGLLSGMVFLAIMLPFSLIGIFNRSLRIGI
KRKVLLMIPKWLYEDIPNMENSNVAKLLQEKSVEFENDNASEQALYVDPVLTEISEISPLEHKPTDYKE
ERLTGLLETRDCPLGMLSTSSSVYIPDLNTGYKPQVSNVPPGGNLFINRDERDPTSLETTDDHFAR
LKTYPNFQFSASSMALLNKTLLDELCLVLNQGEFNSLDIKNSRQEETSIVLQSDSPSETIPAQTLLSDE
FVSCLAIGNEDLPSINSYFPQNVLESHFSRISLFQK

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-23 receptor (IL-23 receptor) (IL-23R) 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: Associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. IL23 functions in innate and adaptive immunity and may participate in acute response to infection in peripheral tissues. IL23 may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis (By similarity).

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.