

Recombinant Mouse IL18R Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51634

Size: 10ug, 100ug

Protein Name: Interleukin-18 receptor 1 (IL-18R-1) (IL-18R1) (EC 3.2.2.6) (CD218 antigen-like family member A) (IL1 receptor-related protein) (IL-1Rrp) (IL1R-rp) (Interleukin-18 receptor alpha) (IL-18R-alpha) (IL-18Ralpha) (CD antigen CD218a)

Synonym: Il18r1

UniProt ID: Q61098

UniProt Link: www.uniprot.org/uniprotkb/Q61098/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 537 AA

Molecular Weight: 62 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MHHEELILTLCILIVKSASKSCIHRSQIHVVEGEPFYLKPCGISAPVHRNETATMRWFKGSASHEYREL
NNRSSPRVTFHDHTLEFWPVEMEDEGTYSISQVGNDRRNWTLNVTKRKHSCFSDKLVTSRDVEVN
KSLHITCKNPNYEELIQDTWLYKNCKEISKTPRILKDAEFGDEGYSCVFSVHHNGTRYNITKTVNITVI
EGRSKVTPAILGPKCEKVGVELGKDVELNCSASLNKDDLFWYSIRKEDSSDPNVQEDRKETTTWISE
GKLHASKILRFQKITENYLNVLNCTVANEEAIDTKSFVLVRKEIPDIPGHVFTGGVTVLVLASVAAVCI
VILCVIYKVDLVLFYRRIAERDETLTDGKTYDAFVSYLKECHPENKEEYTFAVETLPRVLEKQFGYKLCI
FERDVVPGGAVVEEIHSLIEKSRRLIIVLSQSYLTNGARRELESGLHEALVERKIKILIEFTPASNITFLP
PSLKLLKSYRVLKWRADSPSMNSRFWKNLVYLMPAKAVKPWREESEARSVLSAP

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-18 receptor 1 (IL-18R-1) (IL-18R1) (EC 3.2.2.6) (CD218 antigen-like family member A) (IL1 receptor-related protein) (IL-1Rrp) (IL1R-rp) (Interleukin-18 receptor alpha) (IL-18R-alpha) (IL-18Ralpha) (CD antigen CD218a) 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: Within the IL18 receptor complex, responsible for the binding of the pro-inflammatory cytokine IL18, but not IL1A nor IL1B. Involved in IL18-mediated IFNG synthesis from T-helper 1 (Th1) cells (By similarity). Contributes to IL18-induced cytokine production, either independently of SLC12A3, or as a complex with SLC12A3 (PubMed:26099046).

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.