

Recombinant Rat ILRL2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52657

Size: 10ug, 100ug

Protein Name: Interleukin-1 receptor-like 2 (EC 3.2.2.6) (IL-36 receptor) (Interleukin-1 receptor-related protein 2) (IL-1Rrp2) (IL1R-rp2)

Synonym: Il1rl2

UniProt ID: Q62929

UniProt Link: www.uniprot.org/uniprotkb/Q62929/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 561 AA

Molecular Weight: 64 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGMPPLLFCWVSFVLPLFVAAGNCTDVYMHHEMISEGQPFNFCTYPPVTNGAVNLTWHRTPSKS
PISINRHVRIHQDQSWILFLPLALEDGSIYQCVIKDAHSCYRIANLTVFRKHWCDSSNEESSINSSDEY
QQWLPIGKSGSLTCHLYFPESCVLDSIKWYKGCEEIKVSKKFCPTGKLLVNNIDVEDSGSYAC SARL
THLGRIFTVRNYIAVNTKEVGSGGRIPNITYPKNNSIEVQLGSTLIVDCNITDTKENTNLRCWRVNNTL
VDDYYNDFKRIQEGIETNLSLRNHILYTVNITFLEVKMEDYGHPFTCHAAVSAAYIILKRPAPDFRAYLI
GGLMAFLLLAVSILYIYNTFKVDIVLWYRSTFHTAQAPDDEKLYDAYVLYPKYPRESQGHVDVDTLVLKI
LPEVLEKQCGYKLFIFGRDEFPGQAVASVIDENIKLCRRLMVLVAPETSSFSFLKNLTEEQIAVYNALV
QDGMKVILIELERVKDYSTMPESIQYIRQKHGAIQWDGDFTEQAQCAKTKFWKKVRYHMPPRRYP
SPPVQLLGHTPRIPG

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-1 receptor-like 2 (EC 3.2.2.6) (IL-36 receptor) (Interleukin-1 receptor-related protein 2) (IL-1Rrp2) (IL1R-rp2) 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 interleukin-36 (IL36A, IL36B and IL36G). After binding to interleukin-36 associates with the coreceptor IL1RAP to form the interleukin-36 receptor complex which mediates interleukin-36-dependent activation of NF-kappa-B, MAPK and other pathways. The IL-36 signaling system is thought to be present in epithelial barriers and to take part in local inflammatory response; it is similar to the IL-1 system. Seems to be involved in skin inflammatory response by induction of the IL-23/IL-17/IL-22 pathway. Receptor for the interleukin IL36G. Binding to the agonist leads to the activation of NF-kappa-B (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.