

Recombinant Rat IL1R2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52364

Size: 10ug, 100ug

Protein Name: Interleukin-1 receptor type 2 (IL-1R-2) (IL-1RT-2) (IL-1RT2) (CD121 antigen-like family member B) (IL-1 type II receptor) (Interleukin-1 receptor beta) (IL-1R-beta) (Interleukin-1 receptor type II) (CD antigen CD121b) [Cleaved into: Interleukin-1 receptor type 2, membrane form (mIL-1R2) (mIL-1RII); Interleukin-1 receptor type 2, soluble form (sIL-1R2) (sIL-1RII)]

Synonym: Il1r2, Il-1r2, Il1rb

UniProt ID: P43303

UniProt Link: www.uniprot.org/uniprotkb/P43303/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 416 AA

Molecular Weight: 46 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MFILLVLVTGVSAFTTPAVVHTGRVSESPVTSEKHPVLGDDCWFRGRDFKSELRLLEGEPVVLRCPLV
PHSDTSSSSRSLLTWSKSDSSQLIPGDEPRMWVKDDTLWVLPVAVQQDSGTICTFRNASHCEQMS
LELVFKNTEASFPLVSYLQISALSSTGLLVCPDLKEFISSRTDGKIQWYKGSILLDKGNKKFLSAGDP
TRLLISNTSMGDAGYYRCVMTFTYEGKEYNITRNIELRVKGITTEPIPVIIISPLETIPASLGSRILVPCVKF
LGTGTSSNTIVWWWMANSTFISVAYPRGRVTEGLHHQYSENDENYVEVSLIFDPVTKEDLNTDFKCV
TNPRSFQSLHTTVKEVSTFSWGIALAPLSLILVVGAIWIRRRCKRQAGKTYGLTKLPTDNQDFPSSP
NLIKEMK

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 type 2 (IL-1R-2) (IL-1RT-2) (IL-1RT2) (CD121 antigen-like family member B) (IL-1 type II receptor) (Interleukin-1 receptor beta) (IL-1R-beta) (Interleukin-1 receptor type II) (CD antigen CD121b) [Cleaved into: Interleukin-1 receptor type 2, membrane form (mIL-1R2) (mIL-1RII); Interleukin-1 receptor type 2, soluble form (sIL-1R2) (sIL-1RII)] 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: Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors (By similarity).

Subcellular Localization: Membrane; Single-pass type I membrane protein. Cell membrane . 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.