

Recombinant Rat IL1AP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52502

Size: 10ug, 100ug

Protein Name: Interleukin-1 receptor accessory protein (IL-1 receptor accessory protein) (IL-1RAcP) (EC 3.2.2.6)

Synonym: Il1rap

UniProt ID: Q63621

UniProt Link: www.uniprot.org/uniprotkb/Q63621/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 570 AA

Molecular Weight: 66 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGLPWCLMSLFFCGILQSHASERCDDWGLDTMRQIQVFEDEPARIKCPLFEHFLKYNYSTAHSSGLT
LIWYWTRQDRDLEEPINFRLPENRISKEKDVWFRPTLLNDTGNYTCMLRNTTYCSKVAFPLEVQK
DSCFNSPMRLPVHRLYIEQGIHNITCPNVDGYFPSSVKPSVTWYKGCTEIVNFHNVQPKGMNLSFFIP
LVSNNNGNYTCVVTYLENGRLFHLTRTMTVKVVGSPKDAVPPHIYSPNDRVVYEKEPGEELVIPCKVY
FSFIMDSHNEIWWTIDGKKPDDVPVDITIIESVSYSSTEDETTRTQILSIKKVTPEDLKARNYVCHARNAEG
EAEQAAKVQKQVIPPRYTVELACGFGATVFLVVVLIVVYHVVWLEMVLFYRAHFGTDETILDGKEYDI
YVSYARNAEEEEFVLLTLRGVLENEFGYKLCIFDRDSFPGGIVTDETLFSFIQKSRRLLVVLSPNYVLQG
TQALLELKAGLENMASRGNINVLVQYKAVKDLKVKEKRAKSVLTVIKWKGEKSKYPQGRFWKQLQ
VAMPVKKSPRWSSSDKQGLSYSSLKNV

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 accessory protein (IL-1 receptor accessory protein) (IL-1RAcP) (EC 3.2.2.6) 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: Coreceptor for IL1RL2 in the IL-36 signaling system (By similarity). Coreceptor with IL1R1 in the IL-1 signaling system. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Coreceptor for IL1RL1 in the IL-33 signaling system (By similarity). Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD (By similarity). May play a role in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (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.