

Recombinant Human I27RA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50439

Size: 10ug, 100ug

Protein Name: Interleukin-27 receptor subunit alpha (IL-27 receptor subunit alpha) (IL-27R subunit alpha) (IL-27R-alpha) (IL-27RA) (Cytokine receptor WSX-1) (Cytokine receptor-like 1) (Type I T-cell cytokine receptor) (TCCR) (ZcytoR1)

Synonym: IL27RA, CRL1, TCCR, WSX1, UNQ296/PRO336

UniProt ID: Q6UWB1

UniProt Link: www.uniprot.org/uniprotkb/Q6UWB1/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 636 AA

Molecular Weight: 69 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRGGRGAPFWLWPLPKLALLPLLWVLFQRTRPQGSAGPLQCYGVGPLGDLNCSWEPLGDLGAPS
ELHLQSQKYRSNKTQTVAVAAGRSWVAIPREQLTMSDKLLVWGKAGQPLWPPVFNLETQMKPN
APRLGPDVDFSEDDPLEATVHWAPPTWPSHKVLCQFHYYRCQEAAWTLLEPELKTIPLTPVEIQDL
ELATGYKVYGRCRMKEEDLWGEWSPILSFQTPPSAPKDVWVSGNLCGTPGGEEPLLLWKAPGPC
VQVSYKVWFWVGGRELSPEGITCCCSLIPSGAEWARVSAVNATSWEPLTNLSLVCLDSASAPRSVA
VSSIAGSTELLVTWQPGPGEPLHVVDDWARDGDPLEKLNWVRLPPGNLSALLPGNFTVGVPIRITV
TAVSASGLASASSVWGFREELAPLVGPTLWRLQDAPPGTPAIWGEVPRHQLRGHLTHYTLCAQS
GTSPSVCMNVSGNTQSVTLPLDPWGPCELWWTASTIAGQGPPGPILRLHLPDNTLRWKVLPGLFL
WGLFLLGCGLSLATSGRCYHLRHKVLPWVWVEKVPDPANSSSGQPHMEQVPEAQPLGDLPILEVE
EMEPPVMMESSQPAQATAPLDSGYEKHFLLPTPEELGLLGPPRPQVLA

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-27 receptor subunit alpha (IL-27 receptor subunit alpha) (IL-27R subunit alpha) (IL-27R-alpha) (IL-27RA) (Cytokine receptor WSX-1) (Cytokine receptor-like 1) (Type I T-cell cytokine receptor) (TCCR) (ZcytoR1) 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: Signal-transducing subunit for an heterodimeric cytokine composed of IL27/p28 and a soluble receptor EBI3 (PubMed:14764690, PubMed:36930708). Heterodimerizes with IL6ST/GP130 to mediate signal transduction in response to the heterodimeric cytokine IL27/p28-EBI3. This signaling system acts through STAT3 and STAT1 (PubMed:14764690, PubMed:38509369). Also acts as a signaling receptor as part of the humanin receptor complex; binding of MT-RNR2/humanin (HN) activates the intracellular JAK-STAT3 signaling pathway leading to neuroprotection (PubMed:19386761). Involved in the regulation of Th1-type immune responses (By similarity). Also appears to be involved in innate defense mechanisms (PubMed:14764690).

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.