

# Recombinant Mouse I27RA Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP51183

Size: 10ug, 100ug

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

Synonym: Il27ra, Tccr, Wsx1

UniProt ID: O70394

UniProt Link: [www.uniprot.org/uniprotkb/O70394/entry](http://www.uniprot.org/uniprotkb/O70394/entry)

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 623 AA

Molecular Weight: 69 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MNRLRVARLTPLELLLSLMSLLLGTRPHGSPGPLQCYSVGPLGILNCSWEPLGDLETPPVLYHQSQK  
YHPNRVWEVKVPSKQSWVTIPREQFTMADKLLIWGTQKGRPLWSSSVNLETQMKPDTPQIFSQVD  
ISEEATLEATVQWAPPVWPPQKVLICQFRYKECQAETWTRLEPQLKTDGLTPVEMQNLEPGTCYQV  
SGRCQVENGYPWGEWSSPLSFQTPFLDPEDVWVSGTVCETSGKRAALLVWKDPRPCVQVTYTVW  
FGAGDITTTQEEVPCCKSPVPAWMEWAVVSPGNSTSWVPPTNLSLVCLAPESAPCDVGVSSADGS  
PGIKVTWKQGTRKPLEYVVDWAQDGDSDLKLNWTRLPPGNLSTLLPGEFKGGVPYRITVTAVYSGG  
LAAAPSVWGFREELVPLAGPAVWRLPDDPPGTPVVAWGEVPRHQLRGQATHYTFCIQSRGLSTVC  
RNVSSQTQTATLPNLHLGSFKLWTVSTVAGQGPPGNLSLHLPDNRIRWKALPWFLSLWGLLLMG  
CGLSLASTRCLQARCLHWRHKLQPWIWERVPDPANSNSGQPYIKEVSLPQPPKDGPILEVEEVEL  
QPVVESPKASAPIYSGYEKHFLPTPEELGLLV

## 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) (Type I T-cell cytokine receptor) (TCCR) (WSX-1) 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. 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. 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 (By similarity). Involved in the regulation of Th1-type immune responses (PubMed:11057672). Also appears to be involved in innate defense mechanisms (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.