

Recombinant Rat IL15 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52430

Size: 10ug, 100ug

Protein Name: Interleukin-15 (IL-15)

Synonym: Il15

UniProt ID: P97604

UniProt Link: www.uniprot.org/uniprotkb/P97604/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 162 AA

Molecular Weight: 19 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKILKPYMRNTSILYYLCFLLNSHFLTEAGIHVFI LGCVSVGLPKTEANWIDVRYDLEKIESLIQFIHIDTT
LYTDSDFHPSCKVTAMNCFLLQLVILHEYSNMTLNETVRNVLYLANSTLSSNKNVIESGCKECEELE
ERNFTEFLQSFIHIVQMFINTS

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-15 (IL-15) 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: Cytokine that stimulates the proliferation of T-lymphocytes. Stimulation by IL15 requires interaction of IL15 with components of the IL2 receptor, including IL2RB and probably IL2RG but not IL2RA (By similarity). In neutrophils, stimulates phagocytosis probably by signaling through the IL15 receptor, composed of the subunits IL15RA, IL2RB and IL2RG, which results in kinase SYK activation (By similarity).

Subcellular Localization: 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.