

Recombinant Mouse LRC19 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51748

Size: 10ug, 100ug

Protein Name: Leucine-rich repeat-containing protein 19

Synonym: Lrrc19

UniProt ID: Q8BZT5

UniProt Link: www.uniprot.org/uniprotkb/Q8BZT5/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 364 AA

Molecular Weight: 42 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKVTRFMFWLFSMLPSVKSQASETEVPCNFSRRNYTLIPEGISTNVTILDLSYNRITLNAADSRVLQ
MYSLLTELYLMENNIIALYNSSFRNLLNLEILNICGNSISVIQQGSFVGLNELKQLFLCQNKILQLNPDTF
VPLNNLKVLNLQGNLIRLFDAPQLPHLEILTLDGNPWNCTCGLLELHNWLNTSNVTLENENMTMCSY
PDELKHDSEIKSAPFTTECHSTFISTITEDFQSTRNSSFNSSSHNLTWTSEHEPLGKSWAFLVGVVATV
LLTSLIFIAIKCPVWYNILLSYNHHRLEEHEAETYENGLTRNPSSLSQITDTNSEDTTVIFEQLHAFVVD
DDGFIEDRYIDINEVHEEK

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 Leucine-rich repeat-containing protein 19 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: Pathogen-recognition receptor which mediates the activation of TRAF2- and TRAF6 NF-kappa-B signaling pathways and induces the expression of pro-inflammatory cytokines (PubMed:19679103, PubMed:25026888, PubMed:26776522). In kidney, prevents infection by uropathogenic bacteria by inducing the production of cytokines, chemokines and antimicrobial substances (PubMed:25026888). In gut, involved in host-microbiota interactions, plays a critical role in promoting the recruitment of immune cells and intestinal inflammation (PubMed:26776522).

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.