

Recombinant Mouse TLR13 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51694

Size: 10ug, 100ug

Protein Name: Toll-like receptor 13

Synonym: Tlr13

UniProt ID: Q6R5N8

UniProt Link: www.uniprot.org/uniprotkb/Q6R5N8/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 991 AA

Molecular Weight: 114 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSGLYRILVQLEQSPYVKTVPLNMRRDFFFLVVTWMPKTVKMNGSSFVPSLQLLLMLVGFSLPPVAE
TYGFNKCTQYEFDIHHVLCIRKKITNLTEAISDIPRYTTHNLTHNEIQVLPPWSFTNLSALVDLRLEWN
SIWKIDEGAFRGLENLTLLNLVENKIQSVNNSFEGLSLKTLLLSHNQITHIHKDAFTPLIKLKYLSLSRN
NISDFSGILEAVQHLPCLERLDLTNNSIMYLDHSPRSLVSLTHLSFEGNKLRELNFSALSPLNLNLNSA
SRNGNKVIQNVYLKTLPLQLKSLNLSGTVIKLENLSAKHLQNLRAMDLSNWELRHGHLDMKTVCHELLG
NLPKLETLVFQKNVTNAEGIKQLAKCTRLFLDLGQNSDLIYLNDSFNALPSLQKLNLNKCQLSFINN
RTWSSLQNLTSLDLSHNKFKSFPDFAFSPLKHLEFLSLSRNPITELNNLAFSGLFALKELNLAACWIVT
IDRYSFTQFPNLEVLDLGDNNIRTLNHGTFRPLKKLQSLILSHNCLKILEPNSFSGLTNLRSDLMYNSL
SYFHEHLFSGLEKLLILKLGFNKITYETTRTLQYPPFIKLKSLKQLNLEGQRHGIQVVPSNFFQGLGSL
QELLGKNPSVFLDHHQFDPLINLTKLDSGTDGDRSLYLNASLFQNLKRLKILRENNNLESVLPDM
FSSLQSLQVFSLRFNLNKVINQSHLKNLKSMLFFDVYGNKLQCTCDNLWFKNWSMNTEEVHIPFLRS
YPCQQPGSQSLLIDFDDAMCNFDLGKVYFLCSFSMVLSTMVFSWFSTKMIASLWYGLYICRAWYLT
WHKTEKKFLYDAFVSFSATDEAWVYKELVPALEQGSQTTFKLCLHQRDFEPGIDIFENIQNAINTSRK
TLCVVSNNHYLHSEWCRLVQLASMKMFYEHKDVILIFLEEIPNYKLSSYHRLRKLINKQTFITWPDSV
HQQPLFWARIRNALGKETVEKENTHLIVVE

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 Toll-like receptor 13 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: Component of innate and adaptive immunity that recognizes and binds 23S rRNA from bacteria. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Specifically binds the 5'-CGGAAAGACC-3' sequence on bacterial 23S rRNA, a sequence also bound by MLS group antibiotics (including erythromycin). May also recognize vesicular stomatitis virus; however, these data require additional evidence.

Subcellular Localization: Endosome 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.