

Recombinant Mouse TLR12 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51693

Size: 10ug, 100ug

Protein Name: Toll-like receptor 12 (Toll-like receptor 11)

Synonym: Tlr12, Gm1365, Tlr11

UniProt ID: Q6QNU9

UniProt Link: www.uniprot.org/uniprotkb/Q6QNU9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 906 AA

Molecular Weight: 100 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGRYWLLPGLLLSLPLVTGWSTSNCLVTEGSRLPLVSRYFTFCRHSKLSFLAACLSVSNLTQTLEVV
PRTVEGLCLGGTVSTLLPDAFSAFPGLKVLALS LHTQLLP GALRGLGQLQSLSFFDSPLRRSLFLPP
DAFSDLISLQRLHISGPCLDKKAGIRLPPGLQWLGVTLSCIQDVGELAGMFPDLVQGSSSRVSWTLQ
KLDLSSNWKLKMASPGSLQGLQVEILDLTRTP L DAVWLKGLGLQKLDVLYAQTATAELAAEVAHFE
LQGLIVKESKIGSISQEALASCHSLKTLGLSSTGLTKLP PGFLTAMPRLQRLELSGNQLQSAVLCMNE
TGDVSGLTTL DLSGNRLRILPPAAFSCPLPHLRELLRYNQLLSLEGYLFQELQQLETCLKDGNPLLHLG
KNWLAALPALTTLSLLDTQIRMSPEPGFWGAKNLHTLSLKL PALPAPAVLFLPMYLTSL ELHIASGTTE
HWTLSPAIFPSLETLTISGGGLKLKLSQNASGVFPALQKLSLLKNSLDAFCSQGT SNLFLWQLPKLQ
SLRVWGAGNSSRPCLITGLPSLRELKLASLQSITQPRSVQLEELVGDLPQLQALVLSSTGLKSLSAAA
FQRLHSLQVLVLEYEKDMLQDSLREYSPQMPHYIYILESNLACHCANAWMEPWVKRSTKTYIYIRD
NRLCPGQDRLSARGSLPSFLWDHCPQTLELKLFLASSALVFMIALPLLQEARNSWIPYLQALFRVW
LQGLRGKGDKGKRFLFDVFVSHCRQDQGWVIEELLPALEGFLPAGLGLRLCLPERDFEPGKDVVDN
VVDSMLSSRTTLCVL SGQALCNPRCRLELRLATSLLLAAPSPPVLLLVFLEPISRHQLPGYHRLARLL
RRGDYCLWP EEEEEERKSGFWTWLRSRLG

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 12 (Toll-like receptor 11) 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: Participates in the innate immune response to microbial agents. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Plays a role in preventing infection of internal organs of the urogenital system.

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.