

Recombinant Human TLR10 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50970

Size: 10ug, 100ug

Protein Name: Toll-like receptor 10 (CD antigen CD290)

Synonym: TLR10, UNQ315/PRO358

UniProt ID: Q9BXR5

UniProt Link: www.uniprot.org/uniprotkb/Q9BXR5/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 811 AA

Molecular Weight: 95 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFH
SVSKLRVLILCHNRIQQDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEA
GNMSHLEILGLSGAKIQKSDFKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLL
RDGIKTSKILEMTNIDGKSQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQI
RNVTFGGKAYLDHNSFDYSNTVMRTIKLEHVHFRVFYIQQDKIYLLLTkMDIENLTISNAQMPHMLFP
NYPTKFQYLNFNANNILTDELFKRTIQLPHLKTILNNGNKLETLSLVSCFANNTPLEHLDLSQNLLQHKN
DENCWPETVVMNLSYNKLSDSVFRCLPKSIQILDNNNNQIQTVPKETIHLMALRELNIAFNFLTDLP
GCSHFSRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFRCTCELKNFIQLETYSEVMMVGWSD
SYTCEYPLNLRGTRLKDVHLHELSCNTALLIVTIVIMLVGLAVAFCCCLHFDLPWYLRMLGQCTQW
HRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPGKSISENIVSFIE
KSYKSIFVLSPNFVQNEWCHYEFYFAHNNLFHENS DHILILLEPIPFYCIPTRYHKLKALLEKKAYLEW
PKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

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 10 (CD antigen CD290) 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 (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.