

Recombinant Human TLR3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50972

Size: 10ug, 100ug

Protein Name: Toll-like receptor 3 (CD antigen CD283)

Synonym: TLR3

UniProt ID: O15455

UniProt Link: www.uniprot.org/uniprotkb/O15455/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 904 AA

Molecular Weight: 104 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRQTLPCIIYFWGGLLPFGMLCASSTTKCTVSHEVADCSHLKLTQVPDDLPTNITVLNLTHNQLRRLP
AANFTRYSQLTSLDVGFNTISKLEPELCQKLPMLKVLNLQHNELSQLSDKTFAFCTNLTELHMSNSI
QKIKNNPFVKQKNLITLDLSHNGLSSTKLGTQVQLENLQELLSNNKIQAALKSEELDIFANSSLKKLELS
SNQIKEFSPGCFHAIGRLFGLFLNNVQLGPSLTEKLCLELANTSIRNLSLSNSQLSTTSNTTFLGLKWT
NLTMLDLSYNNLNVDGNSFAWLPGLEYFFLEYNNIQHLFSHSLHGLFNVRYLNLKRSFTKQSLAS
LPKIDDFSQWLKCLEHLNMEDNDIPGKSNMFTGLINLKYSLSNSFTSLRTLNETFVSLAHSPLHIL
NLTKNKISKIESDAFSWLGHLEVLDLGLNEIGQELTGQEWGRLENIFEIYLSYNKYQLTRNSFALVPS
LQRLMLRRVALKNVDSSPSFQPLRNLTILDLSNNNIANINDDMLEGLEKLEILDQHNNLARLWKHA
NPGGPPIYFLKGLSHLHILNLESNGFDEIPVEVFKDLFELKIIDLGLNNLNTLPASVFNNQVSLKSLNLQK
NLITSVEKKVFGPAFRNLTELDMRFPDCTCESIAWFVNWINETHNIPELSSHLYLCNTPPHYHGFP
VRLFDTSCKDSAPFELFFMINTSILLIFIVLLIHFEGWRSFYWNVSVHRVLGFKEDRQTEQFEYAA
YIIHAYKDKDWVWEHFSSMEKEDQSLKFCLEERDFEAGVFLEAIVNSIKRSRKIIFVITHLLKDPLCK
RFKVHHAVQQAIEQNLDISIILVFLLEIPDYKLNHALCLRRGMFKSHCILNWPVQKERIGAFRHKLQVAL
GSKNSVH

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 3 (CD antigen CD283) 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: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via the adapter TRIF/TICAM1, leading to NF-kappa-B activation, IRF3 nuclear translocation, cytokine secretion and the inflammatory response.

Subcellular Localization: Endoplasmic reticulum membrane; Single-pass type I membrane protein. Endosome membrane. Early endosome .

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.