

Recombinant Rat SIGIR Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52651

Size: 10ug, 100ug

Protein Name: Single Ig IL-1-related receptor (Single Ig IL-1R-related molecule) (Single immunoglobulin domain-containing IL1R-related protein) (Toll/interleukin-1 receptor 8) (TIR8)

Synonym: Sigirr

UniProt ID: Q4V892

UniProt Link: www.uniprot.org/uniprotkb/Q4V892/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 409 AA

Molecular Weight: 46 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAGVCDRVPNFLSPSEDQALGPALGSAVALNCTAWVFSRPQCPQPSVQWLKDGLALGNGSHFSLH
QDFWVSDNFSEIVSSVLVFNLTKAEDYGTFTCSAWNVSSHSFTLWRAGPAGHVAAVLASLLVLVLL
LVALLYVKCRLNVLLWYQDTYGEVEMNDGKLYDAYVSYSDRPEDRKVFNFILKPQLERRRGYKLFLE
DRDLLPRAEPSADLLVNLSRCRRLIVLSDAFLRRPWCSQSFRGLCRLELTRPIFITFEGQRREPI
HPALRLLRQHRHLVTLVLLWKPGSVTPSSDFWKELQLALPRKVQYRPVEGDPQTRLQDDKDPMLIVR
GRAAQGRAMSELDPDPEGDLGVRGPVFGEPPTPLHESKVSIGEGHASEMDVSDLGSRNYSARTD
FYCLVSEDDV

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 Single Ig IL-1-related receptor (Single Ig IL-1R-related molecule) (Single immunoglobulin domain-containing IL1R-related protein) (Toll/interleukin-1 receptor 8) (TIR8) 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: Acts as a negative regulator of the Toll-like and IL-1R receptor signaling pathways. Attenuates the recruitment of receptor-proximal signaling components to the TLR4 receptor, probably through an TIR-TIR domain interaction with TLR4. Through its extracellular domain interferes with the heterodimerization of IL1R1 and IL1RAP (By similarity).

Subcellular Localization: Membrane ; Single-pass type III 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.