

Recombinant Human KI3S1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50595

Size: 10ug, 100ug

Protein Name: Killer cell immunoglobulin-like receptor 3DS1 (Natural killer-associated transcript 10) (NKAT-10)

Synonym: KIR3DS1, NKAT10

UniProt ID: Q14943

UniProt Link: www.uniprot.org/uniprotkb/Q14943/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 382 AA

Molecular Weight: 42 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLLMVVSMACVGLFLVQRAGPHMGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMPLYKED
RIHVPIFHGRIFQEGFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPMVIMVTGNHRKPSLLAHP
GPLVKSGERVILQCWSDIMFEHFFLHREWISKDPSRLVGQIHGVSKANFSIGSMMRALAGTYRCYG
SVTHTPYQLSAPSDPLDIVVTGLYEKPSLSAQPGPKVQAGESVTLSCSSRSSYDMYHLSREGGAHE
RRLPAVRKVNRTFQADFLGPATHGGTYRCFGSFRHSPYEWSDPSDLLSVTGNPSSSWPSPTE
PSSKSGNLRHLHILIGTSVVKIPFTILLFLLHRWCSNKKKCCCNGPRACREQK

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 Killer cell immunoglobulin-like receptor 3DS1 (Natural killer-associated transcript 10) (NKAT-10) 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: Receptor on natural killer (NK) cells for MHC class I molecules. Upon interaction with peptide-free HLA-F open conformer, triggers NK cell degranulation and anti-viral cytokine production.

Subcellular Localization: Cell 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.