

Recombinant Human KI2S5 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50594

Size: 10ug, 100ug

Protein Name: Killer cell immunoglobulin-like receptor 2DS5 (CD158 antigen-like family member G) (Natural killer-associated transcript 9) (NKAT-9) (CD antigen CD158g)

Synonym: KIR2DS5, CD158G, NKAT9

UniProt ID: Q14953

UniProt Link: www.uniprot.org/uniprotkb/Q14953/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 304 AA

Molecular Weight: 34 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSLMVISMACVAFFLLQGAWPHEGFRRKPSLLAHPGPLVKSEETVILQCWSDVMFEHFLLHREGTF
NHTLRLIGEHDGVSKGNFSIGRMTQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQ
PGPTVLAGESVTLSCSRSSYDMYHLSREGEAHERRLPAGPKVNRTFQADFPLDPATHGGTYRCF
GSFRDSPYEWKSSDPLLVSVTGNSSNSWSPTEPSSETGNPRHLHVLIGTSVVKLPFTILLFFLLHR
WCSNKKNASVMDQGPAGNRTVNREDSDEQDHQEVSYA

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 2DS5 (CD158 antigen-like family member G) (Natural killer-associated transcript 9) (NKAT-9) (CD antigen CD158g) 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: Activating natural killer (NK) receptor that recognizes C2 epitopes of HLA-C alleles. Bridging the innate and adaptive immune systems, NK cells express a number of cell surface receptors which either inhibit or stimulate their cytotoxicity (PubMed:18624290, PubMed:18682925, PubMed:28685972). Able to activate NK cells cytotoxicity and cytokine production such as IFNG (PubMed:18624290, PubMed:24269691). Receptor functions are attenuated even lost in some alleles, such as KIR2DS5*002 represented in this entry (PubMed:28685972).

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein ; Extracellular side .

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.