

Recombinant Human ULBP5 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51041

Size: 10ug, 100ug

Protein Name: UL-16 binding protein 5 (Retinoic acid early transcript 1G protein)

Synonym: RAET1G, ULBP5

UniProt ID: Q6H3X3

UniProt Link: www.uniprot.org/uniprotkb/Q6H3X3/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 334 AA

Molecular Weight: 37 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAAAASPAFLRLPLLLLLSSWCRTGLADPHSLCYDITVIPKFRPGPRWCAVQQQVDEKTFLLHYDCG
SKTVPVSPVPLGKKLVTTAWKAQNPVLREVVDILTEQLLDIQLENYIPKEPLTLQARMSCEQKAEGHG
SGSWQLSFDGQIFLLFDSENRMWTTVHPGARKMKEKWENDKDMTMSFHYISMGDCTGWLEDFLM
GMDSTLEPSAGAPPTMSSGTAQPRATATTLILCCLLIMCLLICSRHSLTQSHGHHPQSLQPPHPPLL
HPTWLLRRVLWSDSYQIAKRPLSGGHVTRVTLPIIGDDSHSLPCPLALYTINNGAARYSEPLQVSIS

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 UL-16 binding protein 5 (Retinoic acid early transcript 1G protein) 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: [Isoform 1]: Binds and activates the KLRK1/NKG2D receptor, mediating natural killer cell cytotoxicity.; [Isoform 3]: Down-regulates the expression of KLRK1 and stimulates natural killer cells to secrete IFNG.; [Isoform 2]: Stimulates natural killer cells to secrete IFNG.

Subcellular Localization: [Isoform 1]: Cell membrane ; Lipid-anchor, GPI-anchor . Endoplasmic reticulum . Note=Mainly found intracellularly.; [Isoform 2]: Secreted .

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.