

Recombinant Human KLRF1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50598

Size: 10ug, 100ug

Protein Name: Killer cell lectin-like receptor subfamily F member 1 (Lectin-like receptor F1) (Activating coreceptor NKp80) (C-type lectin domain family 5 member C)

Synonym: KLRF1, CLEC5C, ML

UniProt ID: Q9NZS2

UniProt Link: www.uniprot.org/uniprotkb/Q9NZS2/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 231 AA

Molecular Weight: 27 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTTLISLILLVSQGVLLK
CQKGSCSNATQYEDTGDLKVNNGTRRNISNKDLCASRSADQTVLCQSEWLKYQGKCYWFSNEMK
SWSDSYVYCLERKSHLLIHDQLEMAFIQKNLRQLNYVWIGLNFTSLKMTWTWVDGSPIDSKIFFIKGP
AKENSCAAIKESKIFSETCSSVFKWICQY

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 lectin-like receptor subfamily F member 1 (Lectin-like receptor F1) (Activating coreceptor NKp80) (C-type lectin domain family 5 member C) 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: Functions as an activating receptor involved in immunosurveillance upon binding to various ligands displayed at the surface of myeloid cells. Upon interaction with CLEC2B ligand, stimulates NK-cell cytotoxicity and cytokine production leading to the cytolysis of malignant CLEC2B-expressing myeloid cells. Activation of the common cytotoxicity pathway involves SRC and SYK kinases (PubMed:21149606).

Subcellular Localization: Membrane ; Single-pass type II 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.