

Recombinant Human CLC5A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50200

Size: 10ug, 100ug

Protein Name: C-type lectin domain family 5 member A (C-type lectin superfamily member 5) (Myeloid DAP12-associating lectin 1) (MDL-1)

Synonym: CLEC5A, CLECSF5, MDL1

UniProt ID: Q9NY25

UniProt Link: www.uniprot.org/uniprotkb/Q9NY25/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 188 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNWHMIISGLIVVVLKVVGMTLFLLYFPQIFNKSNDGFTTTRSYGTVSQIFGSSSPSPNGFITTRSYGT
VCPKDWEFYQARCFLLSTSESSWNESRDFCKGKGSTLAIVNTPEKLKFLQDITDAEKYFIGLIYHREE
KRWRWINNSVFNGNVTNQNQNFNCATIGLTKTFDAASCDISYRRICEKNAK

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 C-type lectin domain family 5 member A (C-type lectin superfamily member 5) (Myeloid DAP12-associating lectin 1) (MDL-1) 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 a positive regulator of osteoclastogenesis (By similarity). Cell surface receptor that signals via TYROBP (PubMed:10449773). Regulates inflammatory responses (By similarity).; (Microbial infection) Critical macrophage receptor for dengue virus serotypes 1-4 (PubMed:18496526, PubMed:21566123). The binding of dengue virus to CLEC5A triggers signaling through the phosphorylation of TYROBP (PubMed:18496526). This interaction does not result in viral entry, but stimulates pro-inflammatory cytokine release (PubMed:18496526).

Subcellular Localization: Cell 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.