

Recombinant Human LYZL6 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50652

Size: 10ug, 100ug

Protein Name: Lysozyme-like protein 6 (EC 3.2.1.17)

Synonym: LYZL6, LYC1, UNQ754/PRO1485

UniProt ID: O75951

UniProt Link: www.uniprot.org/uniprotkb/O75951/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 148 AA

Molecular Weight: 17 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTKALLIYLVSSFLALNQASLISRCDLAQVLQLEDLDGFEGYSLSDWLCLAFVESKFNISKINENADGS
FDYGLFQINSHYWCNDYKSYSENLC HVDCQDLLNP NLLAGIHCAKRIVSGARGMNNWVEWRLHCS
GRPLFYWLTGCRLR

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 Lysozyme-like protein 6 (EC 3.2.1.17) 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: May be involved sperm-egg plasma membrane adhesion and fusion during fertilization (PubMed:28182716). Exhibits bacteriolytic activity in vitro against *Micrococcus luteus* and *Staphylococcus aureus* (PubMed:24013621, PubMed:28182716). Shows weak bacteriolytic activity against Gram-positive bacteria at physiological pH (PubMed:28182716). Bacteriolytic activity is pH-dependent, with a maximum at around pH 5.6 (PubMed:28182716).

Subcellular Localization: Secreted . Cell surface . Cell projection, cilium, flagellum . Note=Detected on the postacrosomal membrane of mature spermatozoa (PubMed:28182716).

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.