

Recombinant Mouse LY96 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51910

Size: 10ug, 100ug

Protein Name: Lymphocyte antigen 96 (Ly-96) (ESOP-1) (Protein MD-2)

Synonym: Ly96, Esop1, Md2

UniProt ID: Q9JHF9

UniProt Link: www.uniprot.org/uniprotkb/Q9JHF9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 160 AA

Molecular Weight: 18 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLPFILFSTLLSPILTESEKQQWFCNSSDAIISYSYCDHLKFPISISSEPCIRLRGTNGFVHVEFIPRGNL
KYLYFNLFISVNSIELPKRKEVLCHGHDDDYSCFRALKGETVNTSIPFSFEGILFPKGHYRCVAEAIAG
DTEEKLFCLNFTIIHRRDVN

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 Lymphocyte antigen 96 (Ly-96) (ESOP-1) (Protein MD-2) 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: Binds bacterial lipopolysaccharide (LPS) (PubMed:22532668). Cooperates with TLR4 in the innate immune response to bacterial lipopolysaccharide (LPS), and with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria. Enhances TLR4-dependent activation of NF-kappa-B. Cells expressing both LY96 and TLR4, but not TLR4 alone, respond to LPS (PubMed:10725698).

Subcellular Localization: Secreted, extracellular space . Secreted . Note=Retained in the extracellular space at the cell surface by interaction with TLR4.

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.