

Recombinant Mouse SG3A2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51835

Size: 10ug, 100ug

Protein Name: Secretoglobin family 3A member 2 (Pneumo secretory protein 1) (PnSP-1)
(Uteroglobin-related protein 1)

Synonym: Scgb3a2, Pnsp1, Ugrp1

UniProt ID: Q920H1

UniProt Link: www.uniprot.org/uniprotkb/Q920H1/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 91 AA

Molecular Weight: 10 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKLVSIFLLVTIGICGYSATALLINRLPVVDKLPVPLDDIIPSFDPKMLLKTGISVEHLVTGLKKCVDEL
GPEASEAVKKLLEALSHLV

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 Secretoglobin family 3A member 2 (Pneumo secretory protein 1) (PnSP-1) (Uteroglobin-related protein 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: Secreted cytokine-like protein (By similarity). Binds to the scavenger receptor MARCO (By similarity). Can also bind to pathogens including the Gram-positive bacterium *L.monocytogenes*, the Gram-negative bacterium *P.aeruginosa*, and yeast (By similarity). Strongly inhibits phospholipase A2 (PLA2G1B) activity (PubMed:24213919). Seems to have anti-inflammatory effects in respiratory epithelium (PubMed:16456148, PubMed:25242865). Also has anti-fibrotic activity in lung (PubMed:24213919, PubMed:26559674). May play a role in fetal lung development and maturation (PubMed:18535256). Promotes branching morphogenesis during early stages of lung development (PubMed:18535256). In the pituitary, may inhibit production of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) (PubMed:24514953).

Subcellular Localization: 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.