

SCGB3A2 Protein, Mouse, Recombinant (GST & His)

General Information

Synonyms:	Secretoglobin family 3A member 2;Uteroglobin-related protein 1;Pnsp1;Scgb3a2;Ugrp1;Pneumo secretory protein 1 (PnSP-1)
Protein Construction:	22-139 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q920H1
Molecular Weight:	43.2 kDa (predicted)
AA Sequence:	LLINRLPVVDKLPVPLDDIIPSFDPKMLLKTGLISVEHLVTGLKKCVDELGPEASEAVKLLVIIIICSYFPGRSLCYVNNLPSFVSVLFLPMICAYPRDSKKQTFAFIERVFEQSKL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Secreted cytokine-like protein. Binds to the scavenger receptor MARCO. Can also bind to pathogens including the Gram-positive bacterium *L.monocytogenes*, the Gram-negative bacterium *P.aeruginosa*, and yeast. Strongly inhibits phospholipase A2 (PLA2G1B) activity. Seems to have anti-inflammatory effects in respiratory epithelium. Also has anti-fibrotic activity in lung. May play a role in fetal lung development and maturation. Promotes branching morphogenesis during early stages of lung development. In the pituitary, may inhibit production of

follicle-stimulating hormone (FSH) and luteinizing hormone (LH).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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