Data Sheet (Cat.No.TMPY-04675)

TargetMol

SG3/Secretogranin 3, Mouse, Recombinant (His)

General Information

Synonyms:	AI385542;SgIII;1B1075;Chgd;secretogranin III
Protein Construction:	A DNA sequence encoding the mouse Scg3 (NP_033156.1) (Met1-Leu471) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Phe 23
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P47867-1
Molecular Weight:	52.4 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

SCG3, also known as secretogranin 3, is a member of the chromogranin/secretogranin family. Members of this family may serve as precursors for biologically active peptides. SCG3 is transported to secretory granules (SGs) in neuroendocrine cells. SCG3 binds strongly to chromogranin A (CgA) in an intragranular milieu and targets CgA to SGs in pituitary and pancreatic endocrine cells. With a sucrose density gradient of rat insulinoma-derived INS-1 cell homogenates, SgIII is localized to the SG fraction and is fractionated to the SG membrane (SGM) despite

lacking the transmembrane region.

Reference

Rong YP. et al., 2002, Sheng Wu Wu Li Xue Bao. 34 (4): 411-7.
Huttner WB. et al., 1991, Trends Biochem Sci. 16 (1): 27-30.
Ozawa H. et al., 1996, Cell Struct Funct. 20 (6): 415-20.

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