

Recombinant Rat SCG2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52269

Size: 10ug, 100ug

Protein Name: Secretogranin-2 (Chromogranin-C) (Secretogranin II) (SgII) [Cleaved into: Secretoneurin (SN); Manserin]

Synonym: Scg2, Chgc, Scg-2

UniProt ID: P10362

UniProt Link: www.uniprot.org/uniprotkb/P10362/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 619 AA

Molecular Weight: 71 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTESKAYRFGAVLLLIHLIFLVPGTEAASFQRNQLLQKEPDLRLLENVQKFPSPSEMIRALEYIEKLRQQA
HREESSPDYNPYQGIVPLQLKENGEESHLEASSRDVLSSEDEWMRIILEALRQAENEPSSALKENKP
YALNLEKNFPVDTPDDYETQQWPERKLKHMRFPLMYEENSRENPFKRTNEIVEEQYTPQSLATLES
VFQELGKLTGPSNQKRERVDEEQKLYTDDDDVYKTNNIAYEDVVGGEDWSPMEEKIETQTQEEVR
DSKENTEKNEQINEEMKRSGHLGLPDEGNRKESKDQLSEDASKVITYLRRLVNAVGSGRSQSGQN
GDRAARLLERPLDSQSIYQLIEISRNLIQIPPEDLIEMLKAGEKPNGLVEPEQDLELAVDLDDIPEADIDR
PDMFQSKTLSKGGYPKAPGRGMMEALPDGLSVEDILNVLGMENVANQKSPYFPNQYSRDKALLRL
PYGPGKSRANQIPKVAWIPDVESRQAPYDNLNDKQDELGEYLARMLVKYPELMNTNQLKRVPSPGS
SEDDLQEEEQLEQAIKEHLGQGSSQEMEKLAKVSKRIPAGSLKNEDTPNRQYLDDEMLLKVLEYLNQ
EQAEQGREHLAKRAMENM

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 Secretogranin-2 (Chromogranin-C) (Secretogranin II) (SgII) [Cleaved into: Secretoneurin (SN); Manserin] 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: Neuroendocrine protein of the granin family that regulates the biogenesis of secretory granules.

Subcellular Localization: Secreted. Note=Neuroendocrine and endocrine secretory granules.

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.