Recombinant SCG1 protein (His tag)

Catalog Number	542016
Synonyms	Chromogranin-B; CgB; Secretogranin I; SgI
Species	Human
Expression System	E. coli
Accession	P05060
Molecular Weight	Predictes a molecular mass of 15.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	564-677
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 564-677 aa (P05060) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a 114-amino acid fragment (residues 564-677) of human Secretogranin-1 (Chromogranin-B), a key neuroendocrine secretory granule protein. The fragment has been computationally selected for optimal stability and solubility, making it ideal for structural studies and biochemical characterization of this important neuroendocrine precursor protein. Secretogranin-1 (Chromogranin-B) is a neuroendocrine secretory granule protein that serves as a precursor for biologically active peptides. The full-length protein is localized to neuroendocrine and endocrine secretory granules and is secreted, playing a crucial role in neuroendocrine systems. As a member of the granin protein family, Secretogranin-1 contributes to the packaging and processing of neuropeptides and hormones within secretory granules, making it an important target for understanding neuroendocrine function and peptide hormone biosynthesis.