

Recombinant Mouse Chromogranin-A/Chga Protein (His Tag)

Catalog Number: PDEM100227

Note: Centrifuge before opening to ensure complete recovery of vial contents.

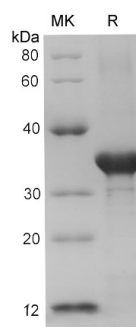
Description

Species	Mouse
Source	E.coli-derived Mouse Chromogranin-A protein Leu19-Met150, with an N-terminal His
Calculated MW	14.4 KDa
Observed MW	15-20 kDa
Accession	P26339
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse Chromogranin-A/Chga proteins, 2 µg/lane of Recombinant Mouse Chromogranin-A/Chga proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 15-20 kDa.

Background

Pancreastatin: Strongly inhibits glucose induced insulin release from the pancreas. Catestatin: Inhibits catecholamine release from chromaffin cells and noradrenergic neurons by acting as a non-competitive nicotinic cholinergic antagonist. Can induce mast cell migration, degranulation and production of cytokines and chemokines. Serpinin: Regulates granule biogenesis in endocrine cells by up-regulating the transcription of protease nexin 1 (SERPINE2) via a cAMP-PKA-SP1 pathway. This leads to inhibition of granule protein degradation in the Golgi complex which in turn promotes granule formation. Pyroglutaminated (pGlu)-serpinin exerts an antiapoptotic effect on cells exposed to oxidative stress.

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