

SCG3/Secretogranin-3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78352
Synonyms:	Secretogranin-3; Secretogranin III; SCG3; SGIII; UNQ2502/PRO5990
Species:	Mouse
Source:	HEK293
Accession:	P47867 (F23-L471)
Gene ID:	20255
Molecular Weight:	60-70 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SCG3/Secretogranin-3 Protein, a member of the granin protein family, serves a crucial role in regulating the biogenesis of secretory granules. Functioning as a sorting receptor for intragranular proteins, including chromogranin A/CHGA, SCG3 contributes to the dynamic process of granule formation. Beyond its involvement in granule biogenesis, SCG3 may also play a role in angiogenesis, where it promotes endothelial proliferation, migration, and tube formation through the MEK/ERK signaling pathway. The protein interacts with chromogranin A (CHGA), highlighting its key association with intragranular proteins. Additionally, SCG3 engages in interactions with secretogranin II/SCG2 and carboxypeptidase E (CPE), further emphasizing its intricate involvement in cellular processes related to granule dynamics and angiogenesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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