

SCG3/Secretogranin-3 Protein, Human (449a.a, HEK293, His)

Cat. No.:	HY-P71279
Synonyms:	Secretogranin-3; Secretogranin III; SgIII;
Species:	Human
Source:	HEK293
Accession:	Q8WXD2 (F20-L468)
Gene ID:	29106
Molecular Weight:	Approximately 63.84 kDa

PROPERTIES

AA Sequence	<pre> F P K P G G S Q D K S L H N R E L S A E R P L N E Q I A E A E E D K I K K T Y P P E N K P G Q S N Y S F V D N L N L L K A I T E K E K I E K E R Q S I R S S P L D N K L N V E D V D S T K N R K L I D D Y D S T K S G L D H K F Q D D P D G L H Q L D G T P L T A E D I V H K I A A R I Y E E N D R A V F D K I V S K L L N L G L I T E S Q A H T L E D E V A E V L Q K L I S K E A N N Y E E D P N K P T S W T E N Q A G K I P E K V T P M A A I Q D G L A K G E N D E T V S N T L T L T N G L E R R T K T Y S E D N F E E L Q Y F P N F Y A L L K S I D S E K E A K E K E T L I T I M K T L I D F V K M M V K Y G T I S P E E G V S Y L E N L D E M I A L Q T K N K L E K N A T D N I S K L F P A P S E K S H E E T D S T K E E A A K M E K E Y G S L K D S T K D D N S N P G G K T D E P K G K T E A Y L E A I R K N I E W L K K H D K K G N K E D Y D L S K M R D F I N K Q A D A Y V E K G I L D K E E A E A I K R I Y S S L </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Secretogranin-3 (SCG3), a member of the granin protein family, actively regulates the biogenesis of secretory granules, acting as a sorting receptor for intragranular proteins, including chromogranin A (CHGA). Beyond its role in granule formation, SCG3 may participate in angiogenesis, exerting effects on endothelial cells by promoting proliferation, migration, and tube formation through the MEK/ERK signaling pathway. The protein interacts with CHGA and secretogranin II (SCG2), contributing to the orchestration of cellular processes. Additionally, SCG3 forms interactions, specifically through its C-terminus, with Carboxypeptidase E (CPE), suggesting a potential involvement in various cellular functions and regulatory pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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