



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Recombinant Human CHGA protein (His tag)

Catalog Number:PDMH100095



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

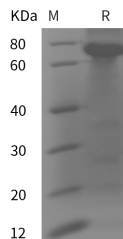
## Description

<b>Synonyms</b>	Chromogranin-A;CgA;Pituitary secretory protein I;SP-I;CHGA
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met1-Gly457
<b>Accession</b>	P10645
<b>Calculated Molecular Weight</b>	50.2 kDa
<b>Observed molecular weight</b>	75 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Chromogranin A (CgA), also known as pituitary secretory protein I (SP-I), is a member of the granin family of regulated secretory proteins. CgA shares several protein characteristics common to the granin family: acidic isoelectric point, the capacity to bind calcium ions, the ability to form aggregates and multiple dibasic cleavage sites. Mature human CgA is 439 amino acids (aa) and contains 10 dibasic, proteolytic cleavage sites, capable of yielding several smaller peptides, each displaying a unique function. Mature human CgA shares 63% aa sequence identity with mouse and rat CgA. CgA is expressed exclusively in the secretory dense core granules of most normal and neoplastic neuroendocrine cells. Increased levels of CgA have been detected in patients with neuroendocrine tumors as well as non-neuroendocrine tumors, hence CgA is an important serological marker for tumor diagnosis and monitoring tumor progression/regression. It has been

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demonstrated in mouse model that full-length CgA containing its C-terminal region can impair angiogenesis and tumor growth. In addition, CgA can bind to Secretogranin III to regulate the biogenesis of secretory granules.

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