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# Recombinant human Secretagogin protein

Catalog Number: ATGP0722

# **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-276aa

#### **UniProt No.**

076038

#### **NCBI Accession No.**

NP 008929

#### **Alternative Names**

Secretagogin, CALBL, DJ501N12.8, SECRET, SEGN, setagin, Secretagogin

# PRODUCT SPECIFICATION

## **Molecular Weight**

34.2 kDa (296aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

SCGN, also known as secretagogin, is a cytoplasmic protein that contains six EF-hand domains and is related to the calicium-binding proteins Calretinin and Calbindin D28K. This protein is thought to be involved in cell proliferation and KCl (potassium chloride) -mediated calcium flux events. Through its interaction with KCl and its subsequent ability to modulate calcium storage pools within the cell, SCGN may function to negatively control growth and differentiation rates and, thus, indirectly inhibit cell replication. Recombinant SCGN protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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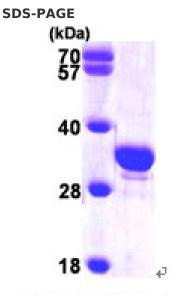
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MDSSREPTLG RLDAAGFWQV WQRFDADEKG YIEEKELDAF FLHMLMKLGT DDTVMKANLH KVKQQFMTTQ DASKDGRIRM KELAGMFLSE DENFLLLFRR ENPLDSSVEF MQIWRKYDAD SSGFISAAEL RNFLRDLFLH HKKAISEAKL EEYTGTMMKI FDRNKDGRLD LNDLARILAL QENFLLQFKM DACSTEERKR DFEKIFAYYD VSKTGALEGP EVDGFVKDMM ELVQPSISGV DLDKFREILL RHCDVNKDGK IQKSELALCL GLKINP

# **General References**

Wagner L., et al. (2000) J Biol Chem. 275(32):24740-51. Gartner W., et al. (2001) Cereb Cortex. 11(12):1161-9.

# **DATA**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

