

**SCGN, 1-276aa, Human, His tag, E.coli**

**Cat.NO.: TP03861**

3th Edition

**Synonyms:** Secretagoin, CALBL, DJ501N12.8, SECRET, SEGN, setagin

**Description:** SCGN, also known as secretagoin, is a cytoplasmic protein that contains six EF-hand domains and is related to the calcium-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.

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

**Molecular Weight:** 34.2 kDa (296aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMDSSREPTLGRDLAAGFWQVWQRFDADEKGYIEEKELDAFFLHMLMKLGTDDT  
VMKANLHKVKQQFMTTQDASKDGRIRMKELAGMFLSEDENFLLLFRRENPLDSSVEFMQIWRKYDADSSGFISAAE  
LRNFLRDLFLHHKKAISEAKLEEYTGMMKIFDRNKDGRDLNLDLARILALQENFLLQFKMDACSTEERKRDFEKIFA  
YYDVSKTGALEGPEVDGFVKDMMELVQPSISGVLDLDFREILLRHCDVKNKDGKIQKSELALCLGLKINP

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.