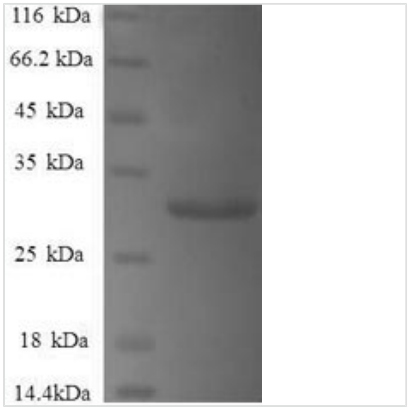
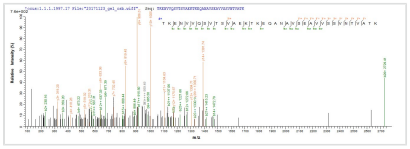
Recombinant Human Gamma-synuclein (SNCG)

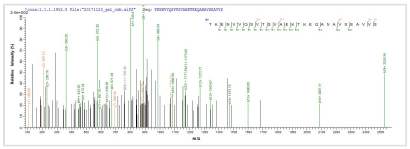
Product Code	CSB-EP021915HU
Relevance	Plays a role in neurofilament network integrity. May be involved in modulating axonal architecture during development and in the adult. In vitro, increases the susceptibility of neurofilament-H to calcium-dependent proteases . May also function in modulating the keratin network in skin. Activates the MAPK and Elk-1 signal transduction pathway .
Abbreviation	Recombinant Human SNCG protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O76070
Alias	Breast cancer-specific gene 1 protein;Persyn;Synoretin ;SR
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDVFKKGFSIAKEGVVGAVEKTKQGVTEAAEKTKEGVMYVGAKTKENVVQSV TSVAEKTKEQANAVSEAVVSSVNTVATKTVEEAENIAVTSGVVRKEDLRPSAP QQEGEASKEKEEVAEEAQSGGD
Research Area	Neuroscience
Source	E.coli
Target Names	SNCG
Expression Region	1-127aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	29.3kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP021915HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) SNCG.



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Description

To make this Recombinant Human SNCG protein, the SNCG gene was isolated at first and cloned into an expression vector. CUSABIO has built a mature recombinant protein platform. This Recombinant Human SNCG protein was developed in the platform. It was expressed in E.coli at the region of 1-127aa of the Human SNCG protein. N-terminal 6xHis-SUMO tag was fused with the expression vector for affinity and purification purposes. The purity is 90%+ determined by SDS-PAGE.

γ-Synuclein (SNCG) is one member of the synuclein family (α-synuclein, β-synuclein, and SNCG), which was first named breast cancer-specific gene 1 (BCSG1). To date, the overexpression of SNCG has been demonstrated in multiple malignant solid tumors, including breast, ovarian, uterus, liver, and cervical cancers. Besides, SNCG up-regulation is related to tumorigenesis and metastasis. Studies suggest SNCG may be a potential prognostic marker and therapeutic approach to promote cancer progression, but the association of the SNCG overexpression with patient survival is controversial in EOC. Furthermore, one study has reported that SNCG might enhance the migration of ovarian cancer cells by activating small GTPases and ERKs of the RHO family. The results revealed that SNCG up-regulation contributes to the poor clinical outcome of patients with ovarian cancer and highlight the metastasis-promoting function of SNCG via activating the PI3K/Akt signaling pathway in ovarian cancer.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final

	concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.