

Gamma Synuclein (Type 1) Recombinant Protein | SNCG recombinant protein

Human Recombinant Gamma Synuclein Protein Pre-formed Fibrils (Type 1)

CATALOG # AAA254090	HOST E coli	APPLICATIONS SDS-Page, Western Blot
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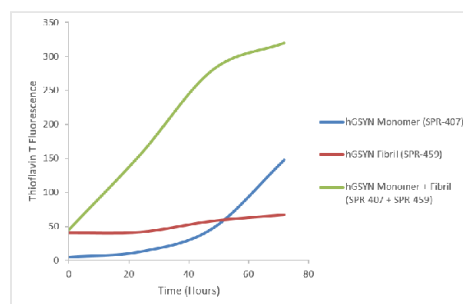
PRODUCT SYNONYMS

Gamma Synuclein (Type 1); Human Recombinant Gamma Synuclein Protein Pre-formed Fibrils (Type 1); Gamma Synuclein Pre-formed Fibrils (Type 1); Gamma Synuclein; BCSG1 Aggregate Protein; Breast cancer specific gene 1 Aggregate Protein; Breast cancer specific Protein 1 Aggregates; Gamma-synuclein Aggregate Protein; Persyn Aggregate Protein; PRSN Aggregate Protein; SNCG Aggregate Protein; SR Aggregate Protein; Synoretin Aggregate Protein; Synuclein gamma Aggregate Protein; SYUG_HUMAN Aggregate Protein; SNCG recombinant protein

PRODUCT SPECIFICATIONS

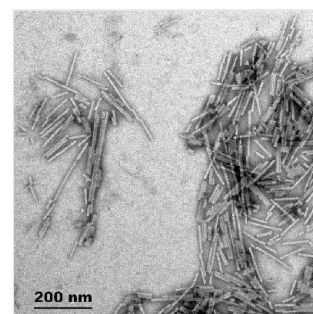
Host	E coli
Purity/Purification	>95%; Ion-exchange Purified
Form/Format	PBS pH 7.4
Concentration	Lot/batch specific. See included datasheet. (varies by lot)
Sequence Length	Full length
Applicable Applications for SNCG recombinant protein	Invitro Assay, SDS-PAGE, WB (Western Blot)
Species	Human
Conjugation	No tag
Research Area	Neuroscience, Neurodegeneration, Alzheimer's Disease, Tangles & Tau, Neuroscience, Neurodegeneration, Parkinson's Disease, Synuclein
Cellular Localization	Cytoskeleton, Centrosome, Spindle, Perinuclear Region
Certificate of Analysis	Certified >95% pure using SDS-PAGE analysis. Low endotoxin <5 EU/mL @ 2mg/mL.
Other Relevant Information	For best results, sonicate immediately prior to use. Refer to the Neurodegenerative Protein Handling Instructions on our website, or on the product datasheet for further information.
Preparation and Storage	Store at -80 degree C

IMAGES



Application Data

Thioflavin T is a fluorescent dye that binds to beta-sheet-rich structures, such as those in gamma synuclein fibrils. Increased fluorescence (correlated to gamma synuclein fibrillization) is seen when human gamma synuclein monomer is combined with human gamma synuclein PFFs (AAA254090).



Application Data

TEM of Active Human Recombinant Gamma Synuclein Pre-formed Fibrils (Type 1) (AAA254090)

ADDITIONAL INFORMATION

Related Product Information for SNCG recombinant protein	Gamma synuclein is a neuronal protein found in peripheral and motor nerve systems. It has been implicated in the hippocampal axon pathology in Parkinson's Disease (1). A change in the expression of gamma synuclein has been observed in the retina of patients with Alzheimer's disease (2). Its expression in breast tumors is also a marker for tumor progression (3).
Product Categories/Family for SNCG recombinant protein	Proteins
References	1. Nishioka K., et al. (2010) Arch Neurol. 67(8): 970-975. 2. Surgucheva I., Newell K.L., Burns J., Surguchov A. (2014) Acta Neuropathol Commun. 2: 132. 3. Bruening. W., et al. (2000) Cancer. 88(9): 2154-2163. 4. Mukaetova-Ladinska E.B., et al. (2008) Dement Geriatr Cogn Disord. 26(1): 32-42.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209693439
NCBI GeneID	6623
NCBI Accession #	NP_003078.2
NCBI GenBank Nucleotide #	NM_003087.2
UniProt Accession #	O76070; O15104; Q96P61
Molecular Weight	13,331 Da
NCBI Official Full Name	gamma-synuclein
NCBI Official Synonym Full Names	synuclein, gamma (breast cancer-specific protein 1)
NCBI Official Symbol	SNCG
NCBI Official Synonym Symbols	SR; BCSG1
NCBI Protein Information	gamma-synuclein; persyn; synoretin; breast cancer-specific gene 1 protein
UniProt Protein Name	Gamma-synuclein
UniProt Gene Name	SNCG
UniProt Synonym Gene Names	BCSG1; PERSYN; PRSN; SR
UniProt Entry Name	SYUG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.