

Recombinant Human SYP

Cat. No. SYP-31490TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Synaptophysin with N terminal proprietary tag; predicted MWt 60.54 kDa inclusive of tag. AAH64550.1
Species	Human
Source	Wheat Germ
ProteinLength	313 amino acids
Description	This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR).
Molecular Weight	60.540kDa inclusive of tags
Tissue specificity	Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial phenotype.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLLLADMDVVNQLVAGGQFRVVKEPLGFVKVLQWVFAI FAFATCGSYSGELQLNVD CANKTESDLSIEVEFEYPPRLH QVYFDAPTCRGGTTKVFLVGDYSSSAEFFVTVAVF AFLYS MGALATYIFLQNKYRENNKGPMLDFLATAVFAFMWLVSSS AWAKGLSDVK MATDPENIIKEMPVCRQTGNTCKELRDLVT SGLNTSVVFGFLNLVLWVGNLWFVFK ETGWAAPFLRAPPG APEKQPAPGDAYGDAGYGQGGYGPQDSYGPQGGYQPD Y GQPAGSGGSGYGPQGDYGQQGYGPQGAPTSFNSQM
Sequence Similarities	Belongs to the synaptophysin/synaptobrevin family. Contains 1 MARVEL domain.

GENE INFORMATION

Gene Name	SYP synaptophysin [Homo sapiens]
Official Symbol	SYP
Synonyms	SYP; synaptophysin;
Gene ID	6855
mRNA Refseq	NM_003179
Protein Refseq	NP_003170
MIM	313475

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Uniprot ID	P08247
Chromosome Location	Xp11.23-p11.22
Function	SH2 domain binding; calcium ion binding; cholesterol binding; identical protein binding; syntaxin-1 binding;

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