# Recombinant Human SYN1 Protein, GST-tagged

**Cat. No.** SYN1-1380H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human SYN1 Protein (113-420aa) was expressed in E. coli with N-terminal GST tag. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 113-420 a.a. |
| **Description** | This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. |
| **Form** | Tris-based buffer, 50% glycerol. |
| **Molecular Mass** | 61.6 kDa |

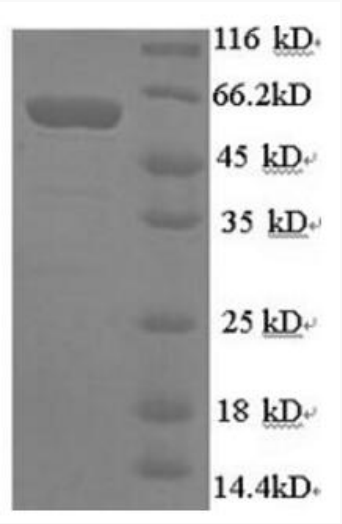
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|---|---|
| **AA Sequence** | SRVLLVIDEPHTDWAKYFKGKKIHGEIDIKVEQAEFSDLNLVAHANGGFSVDMEVLR NGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPSVNSLHSVYNFCDKP WVFAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKVK VDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKT NTGSAMLEQIAMSDRYKLWVDTCSEIFGGLDICAVEALHGKDGRDHIIEVVGSSMPLI GDHQDEDKQLIVELVVNKMAQALPR |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Storage** | The shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |

## GENE INFORMATION

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| **Gene Name** | SYN1 synapsin I [ Homo sapiens (human) ] |
| **Official Symbol** | SYN1 |
| **Synonyms** | SYNI; SYN1a; SYN1b |
| **Gene ID** | 6853 |
| **mRNA Refseq** | NM_006950.3 |
| **Protein Refseq** | NP_008881.2 |
| **MIM** | 313440 |
| **UniProt ID** | P17600 |

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