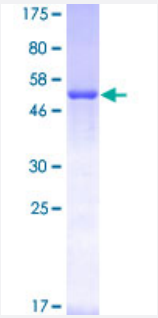
Full-Length

STX1A (Human) Recombinant Protein (P01)

Catalog # H00006804-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human STX1A full-length ORF (AAH03011.1, 1 a.a. - 251 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MKDRTQELRTAKDSDDDDDVAVTVDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKRKHSAILASP NPDEKTKEELEELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVM SEYNATQSDYRERCKGRIQRQLEITGRTTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRH SEIIKLENSIRELHDMFMDMAMLVESQTMWRGPCLTPRRPSSTRARRAGRKS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	53.35
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — STX1A

Entrez GeneID	6804
GeneBank Accession#	BC003011.1
Protein Accession#	AAH03011.1
Gene Name	STX1A
Gene Alias	HPC-1, STX1, p35-1
Gene Description	syntaxin 1A (brain)
Omim ID	186590
Gene Ontology	Hyperlink
Gene Summary	Synaptic vesicles store neurotransmitters that are released during calcium-regulated exocytosis. The specificity of neurotransmitter release requires the localization of both synaptic vesicles and c alcium channels to the presynaptic active zone. Syntaxins function in this vesicle fusion process. S yntaxins also serve as a substrate for botulinum neurotoxin type C, a metalloprotease that blocks exocytosis and has high affinity for a molecular complex that includes the alpha-latrotoxin receptor (MIM 600565) which produces explosive exocytosis (Zhang et al., 1995 [PubMed 7622072]).[sup plied by OMIM
Other Designations	-

Pathway

- SNARE interactions in vesicular transport

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Disease

- Alzheimer disease
- Autistic Disorder
- Cardiovascular Diseases
- Developmental Disabilities
- Diabetes Complications
- Diabetes Mellitus
- Epilepsy
- Genetic Predisposition to Disease
- Glucose Intolerance
- Kidney Failure
- Mental Retardation
- Metabolic Syndrome X
- Migraine Disorders
- Neoplasms
- Obesity
- Osteoporosis
- Overweight
- Schizophrenia

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