

Product datasheet for **AR09086PU-L**

Syntaxin 1A / STX1A (1-226) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Syntaxin 1A / STX1A (1-226) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MKDRTQELRT AKDSDDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHSA ILASPNPDEK TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTKQH STLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGRIT TSEELEDMLE SGNPAIFASG IIMDSSISKQ ALSEIETRHS EIKLENSIR ELHDMFMDMA MLVESQ
Predicted MW:	26.1 kDa
Concentration:	lot specific
Purity:	≥95 by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris (pH 7.5), 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant syntaxin 1A protein (1-226aa) contains N-terminal domain (Habc) and t _{SNARE} domain (H3 domain) and this protein was overexpressed in E.coli and purified by using the conventional column chromatography techniques.
Storage:	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001159375
Locus ID:	6804
UniProt ID:	Q16623
Cytogenetics:	7q11.23
Synonyms:	HPC-1; P35-1; STX1; SYN1A



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Summary:

This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways:

SNARE interactions in vesicular transport

Product images: