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Recombinant human SYT11 protein

Catalog Number: ATGP3165

PRODUCT INFORMATION

Expression system
E.coli

Domain
37-431aa

UniProt No.
Q9BT88

NCBI Accession No.
NP_689493

Alternative Names
Synaptotagmin-11, SYT12, sytXI

PRODUCT SPECIFICATION

Molecular Weight
47 kDa (418aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SYT11 also known as synaptotagmin-11. The protein may be involved in Ca2+-dependent exocytosis of secretory vesicles through Ca2+ and phospholipid binding to the C2 domain or may serve as Ca2+ sensors in the process of vesicular trafficking and exocytosis. A synaptotagmin potentially involved in Parkinson s desease and schizophrenia. Recombinant human SYT11, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

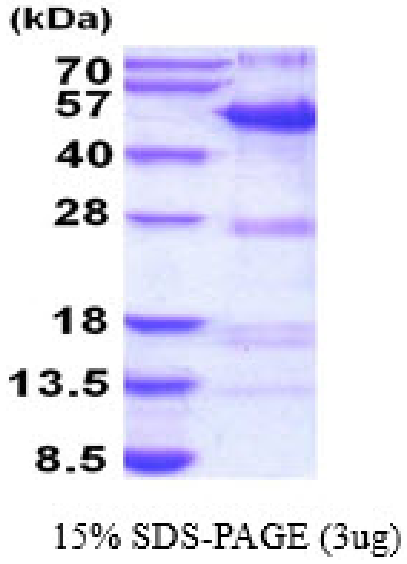
<MGSSHHHHHH SSGLVPRGSH MGS>WSCCHQQ AEKKQKNPPY KFIHMLKGIS IYPETLSNKK KIIKVRRDKD GPGREGGRRN LLVDAAEAGL LSRDKDPRGP SSGSCIDQLP IKMDYGEELR SPITSLTPGE SKTTSPSSPE EDVMLGSLTF SVDYNFPKKA LVVTIQEAHG LPVMDDQTQG SDPYIKMTIL PDKRHRVKTR VLRKTLDPVF DETFTFYGIP YSQLQDLVLH FLVLSFDRFS RDDVIGEVMV PLAGVDPSTG KVQLTRDIIK RNIQKCISRG ELQVSLSYQP VAQRMTVVVL KARHLPKMDI TGLSGNPYVK VNVYYGRKRI AKKKTHVKKC TLNPIFNESF IYDIPTDLLP DISIEFLVID FDRTTKNEVV GRLILGAHSV TASGAEHWRE VCESPRKPVA KWHSLSEY

General References

Huynh D P., et al. (2003) Hum Mol Genet. 12(20):2587-97
Glass AS., et al. (2004) J Neural Transm Suppl. (68):21-8.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.