Recombinant mouse Serpin E2/PN1 protein

Catalog Number: ATGP3401

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
20-397aa

UniProt No.
Q07235

NCBI Accession No.
NP_033281

Alternative Names
Glia-derived nexin, Serpnie2, B230326M24Rik, PAI-1, PI-7, PI7, PN-1, Spi4, GDN, GDN_HUMAN, GDNPF, Glia derived nexin, Glia-derived nexin, Glial derived neurite promoting factor, P17, Peptidase inhibitor 7, Pi-7, Plasminogen activator inhibitor type 1 member 2, PN-1, PN1, PNI, Protease inhibitor 7, Protease nexin 1, Protease nexin I, Serpin E2, Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2, SERPINE 2, Serpine2

PRODUCT SPECIFICATION

Molecular Weight
42.9 kDa (386aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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

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Description

Serpine2, as known as glia-derived nexin, is a member of the Serpin superfamily of the serine protease inhibitors. This protein is a potent inhibitor of thrombin, plasmin and plasminogen activators. It is differentially expressed during neuronal differentiation and is able to transform human embryonic kidney cells into neuron-like cells. Also, it is over expression in mice leads to progressive neuronal and motor dysfunction in these animals. Recombinant mouse Serpine2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

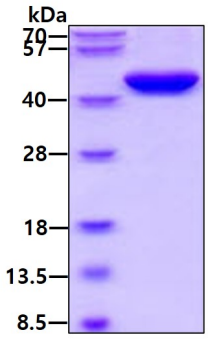
SQFNSLSLEE LGSNTGIQVF NQIIKSRPHE NVVVSPHGIA SILGMLQLGA DGKTKKQLST VMRYNVNGVG KVLKKINKAI VSKKNKDIVT VANAVFLRNG FKMEVPFAVR NKDVFQCEVQ NVNFQDPASA SESINFWVKN ETRGMIDNLL SPNLIDGALT RLVLVNAVYF KGLWKSRFQP ESTKKRTFVA GDGKSYQVPM LAQLSVFRSG STRTPNGLWY NFIELPYHGE SISMLIALPT ESSTPLSAII PHITTKTIDS WMNTMVPKRM QLVLPKFTAV AQTDLKEPLK ALGITEMFEP SKANFTKITR SESLHVSHIL QKAKIEVSED GTKASAATTA ILIARSSPPW FIVDRPFLFS IRHNPTGAIL FLGQVNKP<LE HHHHHH>

General References

Lu CH., et al. (2013) PLoS ONE 8:E74602.
McKee CM., et al. (2012) J. Clin. Invest. 122:4025-4036.

DATA

SDS-PAGE



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