

Recombinant Full Length Human NOS1AP Protein, GST-tagged

Cat. No. NOS1AP-6711HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NOS1AP full-length ORF (NP_055512.1, 1 a.a. - 506 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	506 amino acids
Description	This gene encodes a cytosolic protein that binds to the signaling molecule, neuronal nitric oxide synthase (nNOS). This protein has a C-terminal PDZ-binding domain that mediates interactions with nNOS and an N-terminal phosphotyrosine binding (PTB) domain that binds to the small monomeric G protein, Dexras1. Studies of the related mouse and rat proteins have shown that this protein functions as an adapter protein linking nNOS to specific targets, such as Dexras1 and the synapsins. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]
Molecular Mass	82.5 kDa
AA Sequence	MPSKTKYNLVDDGHDLRIPLHNEDAFQHGICFEAKYVGSLDVPRPNSRVEIVAAMRR IRYEFKAKNIKKKKVSIMVSVDGVKVILKKKKKLLLLQKKEWTWDESKMLVMQDPPIYRI FYVSHDSQDLKIFSFIARDGASNIFRCNVFKSKKKSQAMRIVRTVGQAFEVCHKLSLQ HTQQNADGQEDGESERNSSSGDPGRQLTGAERASTATAEETDIDAVEVPLPGND

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VLEFSRGTDLDAVGKEGGSHGTGSKVSHQPMLTASPRMLLPSSSSKPPGLGTET
 PLSTHHQMQLLQQLLQQQQQTQVAVAQVHLLKDQLAAEAAARLEAQARVHQLLL
 QNKDMLQHISLLVKQVQELELKLSGQNAMGSQDSLEITFRSGALPVLCDPTTPKPE
 DLHSPPLGAGLADFAHPAGSPLGRRDCLVKLECFRFLPPEDTPPPAQGEALLGGLE
 LIKFRESGIASEYESNTDESEERDSWSQEELPRLNLVLQRQELGDGLDDEIAV

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

NOS1AP nitric oxide synthase 1 (neuronal) adaptor protein [Homo sapiens]

Official Symbol

NOS1AP

Synonyms

NOS1AP; nitric oxide synthase 1 (neuronal) adaptor protein; carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein; C terminal PDZ domain ligand of neuronal nitric oxide synthase; CAPON; KIAA0464; nitric oxide synthase 1 adaptor protein; C-terminal PDZ ligand of neuronal nitric oxide synthase protein; C-terminal PDZ domain ligand of neuronal nitric oxide synthase (CAPON); ligand of neuronal nitric oxide synthase with carboxyl-terminal PDZ domain; 6330408P19Rik; MGC138500;

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Gene ID	9722
mRNA Refseq	NM_001126060
Protein Refseq	NP_001119532
MIM	605551
UniProt ID	O75052

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