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 IRYEFKAKNIKKKKVSIMVSVDGVKVILKKKKKLLLLQKKEWTWDESKMLVMQDPIYRI FYVSHDSQDLKIFSYIARDGASNIFRCNVFKSKKKSQAMRIVRTVGQAFEVCHKLSLQ HTQQNADGQEDGESERNSNSSGDPGRQLTGAERASTATAEETDIDAVEVPLPGND

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	VLEFSRGVTDLDAVGKEGGSHTGSKVSHPQEPMLTASPRMLLPSSSSKPPGLGTET PLSTHHQMQLLQQLLQQQQQQTQVAVAQVHLLKDQLAAEAAARLEAQARVHQLLL QNKDMLQHISLLVKQVQELELKLSGQNAMGSQDSLLEITFRSGALPVLCDPTTPKPE DLHSPPLGAGLADFAHPAGSPLGRRDCLVKLECFRFLPPEDTPPPAQGEALLGGLE LIKFRESGIASEYESNTDESEERDSWSQEELPRLLNVLQRQELGDGLDDEIAV
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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