

Recombinant Human Nitric Oxide Synthase 1 (Neuronal) Adaptor Protein

Cat. No. NOS1AP-636H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Nitric Oxide Synthase 1 (Neuronal) Adaptor Protein is produced in Sf9 cells. MW=160kDa.
Species	Human
Source	Sf9 Cells
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.
Formulation	Liquid. In 50mM triethanolamine, pH 7.5, 0.5mM EDTA, 7mM GSH, 0.2% CHAPSO, 1μM E64, 1μM leupeptin, 1μM pepstatin, 1mg/ml trypsin inhibitor and 10% glycerol.
Specific Activity	≥1nmol/100μl/min (U/100μl). Amount assayed 1μl Optimal conditions: 37°C, pH 7.0, 1mM L-arginine, 1mM NADPH, 10μM (6R)-tetrahydrobiopterin, 5μM FAD, 5μM FMN, 50nM calmodulin, 1mM CaCl ₂ and 7mM GSH.
Storage	-80°C. nNOS is relatively unstable. Keep stock vial on ice at all times when performing experiments! Enzyme loses approx. 10-15% of activity during a single freeze/thaw cycle.

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GENE INFORMATION

Gene Name	NOS1AP nitric oxide synthase 1 (neuronal) adaptor protein [Homo sapiens]
Synonyms	NOS1AP; nitric oxide synthase 1 (neuronal) adaptor protein; C-terminal PDZ domain ligand of neuronal nitric oxide synthase (CAPON); C-terminal PDZ ligand of neuronal nitric oxide synthase protein; carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein; ligand of neuronal nitric oxide synthase with carboxyl-terminal PDZ domain; nitric oxide synthase 1 adaptor protein; CAPON; MGC138500; 6330408P19Rik
Gene ID	9722
mRNA Refseq	NM_001126060
Protein Refseq	NP_001119532
MIM	605551
UniProt ID	O75052
Chromosome Location	1q23.3
Function	PDZ domain binding; nitric-oxide synthase binding; protein binding

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