

**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain  
Synthetic Peptide  
Catalog # SP3608a****Specification**

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**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain - Product Information**

Primary Accession  
Sequence

[P29476](#)  
**Ac-TKRRRAIGFKKLAEAVKC-COOH**

**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain - Additional Information**

**Gene ID** 24598

**Other Names**

Nitric oxide synthase, brain, BNOS, Constitutive NOS, NC-NOS, NOS type I, Neuronal NOS, N-NOS, nNOS, Peptidyl-cysteine S-nitrosylase NOS1, Nos1, Bnos

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain - Protein Information**

**Name** Nos1 {ECO:0000312|RGD:3184}

**Synonyms** Bnos

**Function**

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Inhibitory transmitter for non-adrenergic and non-cholinergic nerves in the colorectum. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR. Inhibitory transmitter for non-adrenergic and non-cholinergic nerves in the colorectum.

**Cellular Location**

Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q9Z0J4}; Peripheral membrane protein. Cell projection, dendritic spine. Note=In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex (By similarity). In neurons, enriched in dendritic spines (PubMed:15548660) {ECO:0000250|UniProtKB:Q9Z0J4, ECO:0000269|PubMed:15548660}

**Tissue Location**

Isoform N-NOS-1 is expressed in brain and colorectum. Found in the Auerbach's plexus of the enteric nervous system. Isoform PNNOS is expressed in the penis, urethra, prostate, and skeletal muscle, and coexists with the cerebellar nnos in the pelvic plexus, bladder and liver, and is detectable in the cerebellum

**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain - Images**