

**Nitric Oxide Synthase (724-739) Blocking Peptide, Rat Brain
Synthetic Peptide
Catalog # SP3608b****Specification**

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