

## Product datasheet

# Recombinant Human nNOS (neuronal) protein ab159005

[1 References](#) [1 Image](#)

### Description

<b>Product name</b>	Recombinant Human nNOS (neuronal) protein	
<b>Expression system</b>	Wheat germ	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	FPGNHEDLVNALIERLEDAPPVNQMVKVELLEERNTALGV ISNWTDELRL PPCTIFQAFKYLDITTPPTPLQLQQFASLATSEKEKQRLLV LSKGLQEYEEWKWGKNPT	
<b>Amino acids</b>	1041 to 1150	
<b>Tags</b>	GST tag N-Terminus	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab159005** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot
	ELISA
<b>Form</b>	Liquid

### Additional notes

### Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	pH: 8.00
	Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

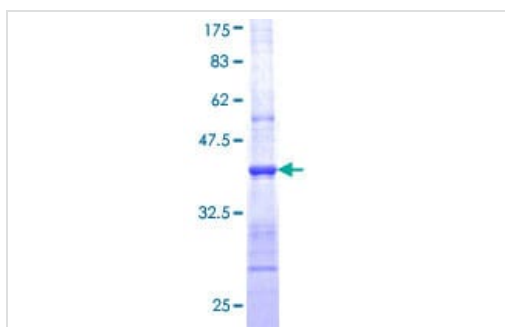
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<b>Function</b>	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR.
<b>Tissue specificity</b>	Isoform 1 is ubiquitously expressed: detected in skeletal muscle and brain, also in testis, lung and kidney, and at low levels in heart, adrenal gland and retina. Not detected in the platelets. Isoform 3 is expressed only in testis. Isoform 4 is detected in testis, skeletal muscle, lung, and kidney, at low levels in the brain, but not in the heart and adrenal gland.
<b>Sequence similarities</b>	Belongs to the NOS family. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain. Contains 1 PDZ (DHR) domain.
<b>Domain</b>	The PDZ domain in the N-terminal part of the neuronal isoform participates in protein-protein interaction, and is responsible for targeting nNos to synaptic membranes in muscles. Mediates interaction with VAC14.
<b>Post-translational modifications</b>	Ubiquitinated; mediated by STUB1/CHIP in the presence of Hsp70 and Hsp40 (in vitro).
<b>Cellular localization</b>	Cell membrane > sarcolemma. Cell projection > dendritic spine. In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex. In neurons, enriched in dendritic spines.

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## Images

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SDS-PAGE - Recombinant Human nNOS (neuronal) protein (ab159005)

ab159005 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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