

Recombinant Human SMOX Protein (Met1-Gln165), N-His tagged

Cat. No. SMOX-5447H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human SMOX (Met1-Gln165) fused with the N-His tag was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

Met1-Gln165

Description

Polyamines are ubiquitous polycationic alkylamines which include spermine, spermidine, putrescine, and agmatine. These molecules participate in a broad range of cellular functions which include cell cycle modulation, scavenging reactive oxygen species, and the control of gene expression. These molecules also play important roles in neurotransmission through their regulation of cell-surface receptor activity, involvement in intracellular signalling pathways, and their putative roles as neurotransmitters. This gene encodes an FAD-containing enzyme that catalyzes the oxidation of spermine to spermadine and secondarily produces hydrogen peroxide. Multiple transcript variants encoding different isoenzymes have been identified for this gene, some of which have failed to demonstrate significant oxidase activity on natural polyamine substrates. The characterized isoenzymes have distinctive biochemical characteristics and substrate specificities, suggesting the existence of additional levels of complexity in polyamine catabolism.

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Form	Lyophilized powder/frozen liquid
Molecular Mass	20.20 kDa
Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02 % NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	SMOX spermine oxidase [Homo sapiens (human)]
Official Symbol	SMOX
Synonyms	SMOX; spermine oxidase; PAO; SMO; PAO1; PAOH; PAO-1; PAOH1; C20orf16; spermine oxidase; flavin containing amine oxidase; flavin-containing spermine oxidase; polyamine oxidase 1; putative cyclin G1 interacting protein; EC 1.5.3.16
Gene ID	54498
mRNA Refseq	NM_175839

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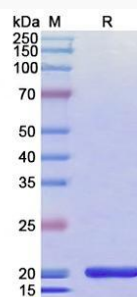
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Protein Refseq NP_787033

MIM 615854

UniProt ID Q9NWM0

SDS-PAGE



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