

Recombinant Human SMOX protein, His & T7-tagged

Cat. No. SMOX-8111H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMOX aa. (Met1~Gln165 (Accession # Q9NWM0)) fused with N-terminal His & T7 tag was produced in E. coli cells.
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.
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 21.6kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SMOX spermine oxidase [Homo sapiens (human)]
Official Symbol	SMOX
Synonyms	PAO; SMO; PAO1; PAOH; PAO-1; PAOH1; C20orf16; flavin containing amine

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oxidase; flavin-containing spermine oxidase; polyamine oxidase 1; putative cyclin G1 interacting protein; spermine oxidase

Gene ID	54498
mRNA Refseq	NM_001270691.1
Protein Refseq	NP_001257620.1
UniProt ID	Q9NWM0

SDS-PAGE

