

Product datasheet for PH300156

SMOX (NM_175840) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SMOX MS Standard C13 and N15-labeled recombinant protein (NP_787034)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200156
Predicted MW:	56.1 kDa
Protein Sequence:	>RC200156 protein sequence Red=Cloning site Green=Tags(s)

MQSCESSGDSADDPLSRGLRRRQPRVVVIGAGLAGLAAAKALLEQGFDTVLEASSHIGGRVQSVKLG
HATFELGATWIHGSHGNPIYHLAEANGLLEETTDGERSVGRISLYSKNGVACYLTNHGRRIPKDVVEEFS
DLYNEVYNTQEFFRHDKPVNAESQNSVGVFTRREEVRNRIRNDPDDPEATKRLKLAMIQQYLKVESCESS
SHSMDEVSLSAFGEWTEIPGAHHIIPSGFMRVVELLAEGIPAHVIQLGKPVRCIHWDAQASARPRGPEIEP
RGVLKRQYTSFFRPGLPTEKVAAIHRLGIGTTDKIFLEFEEFPWGPECNSLQFVWEDEASHTLTYPPEL
WYRKICGFDVLYPPERYGHVLSGWICGEEALVMEKCDDEAVAEICTEMLRQFTGNPNIPKPRRILRSAWG
SNPYFRGSYSYTVQVSSGADVEKLAKPLPYTESSKTAPMQVLFSGEATHRKYYSTTHGALLSGQREARL
IEMYRDLFQQGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_787034</u>
RefSeq Size:	2090
RefSeq ORF:	1506



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Synonyms: C20orf16; PAO; PAO-1; PAO1; PAOH; PAOH1; SMO

Locus ID: 54498

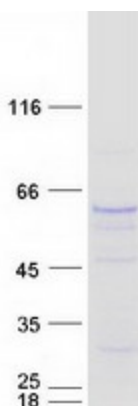
UniProt ID: [Q9NWM0](#)

Cytogenetics: 20p13

Summary: 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 spermidine 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. [provided by RefSeq, Jul 2012]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified SMOX protein (Cat# [TP300156]). The protein was produced from HEK293T cells transfected with SMOX cDNA clone (Cat# [RC200156]) using MegaTran 2.0 (Cat# [TT210002]).