

## Product datasheet for **TP300156**

### SMOX (NM\_175840) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human spermine oxidase (SMOX), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200156 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MQSCSSGDSADDPLSRGLRRRGQPRVWVIGAGLAGLAAAKALLEQGFTDVTVLEASSHIGGRVQSVKLG  
HATFELGATWIHGSHGNPIYHLAEANGLLEETTDGERSVGRISLYSKNGVACYLTNHGRRIPKDVVEEFS  
DLYNEVYNLTQEFFRHDKPVNAESQNSVGVFTREEVRNRIRNDPDDPEATKRLKLAMIQQYLKVESCESS  
SHSMDEVLSAFGEWTEIPGAHHIIPSGFMRVVELLAEGIPAHVIQLGKPVRCIHWDAQSARPRGPEIEP  
RGVLKRQYTSFFRPGLPTEKVAAIHRLGIGTTDKIFLEFEFPFWGPECNSLQFVWEDEAESHTLTYPPEL  
WYRKICGFDVLYPPERYPYGHVLSGWICGEEALVMEKCDDEAVAEICTEMLRQFTGNPNIPKRRILRSAWG  
SNPYFRGSYSYTVQVSSGADVEKLAKLPLPYTESSKTAPMQVLFSGEATHRKYYSTHGHALLSGQREARL  
IEMYRDLFQQGT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	55.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_787034](#)

Locus ID: 54498

UniProt ID: [Q9NWM0](#)

RefSeq Size: 2090

Cytogenetics: 20p13

RefSeq ORF: 1506

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

**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 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. [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]).