

## Product datasheet for PH321583

### PAOX (NM\_207127) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PAOX MS Standard C13 and N15-labeled recombinant protein (NP_997010)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221583
Predicted MW:	34.5 kDa
Protein Sequence:	>RC221583 representing NM_207127 Red=Cloning site Green=Tags(s)  MESTGSVGEAPGGPRVLVVGGGIAGLGAAQRLCGHSAPHLRVLEATARAGGRIRSERCFGVVEVGAHW IHGPSRGNPVFQLAAEYGLLGEKELSQENQLVETGGHVGLPSVSYASSGASVSLQLVAEMATLFYGLIDQ TREFLHAAETPVPSVGEYLKKEIGQHVAGWTEDEETRKLKLAVLNSFFNLECCVSGTHSMDLVALAPFGE YTVLPGLDCTFSKGYQGLTNCMMAALPEDTVVFEKPVKTIHWNGSFQEAAFPGETFPVSEVEDGDRFPA HHVIVTVPLGLSTFSVGSPLDLSLSSWRLCRMKKYFCVSPKCSGE  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_997010</a>
RefSeq Size:	1467
RefSeq ORF:	975
Synonyms:	PAO
Locus ID:	196743



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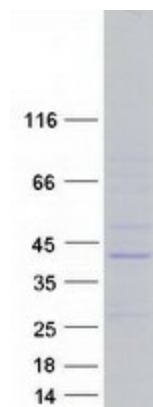
UniProt ID: [Q6QHF9](#)

Cytogenetics: 10q26.3

**Summary:** Flavoenzyme which catalyzes the oxidation of N(1)-acetylspermine to spermidine and is thus involved in the polyamine back-conversion (PubMed:12477380). Can also oxidize N(1)-acetylspermidine to putrescine. Substrate specificity: N(1)-acetylspermine = N(1)-acetylspermidine > N(1),N(12)-diacetylspermine >> spermine. Does not oxidize spermidine. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs (PubMed:12477380).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified PAOX protein (Cat# [TP321583]). The protein was produced from HEK293T cells transfected with PAOX cDNA clone (Cat# [RC221583]) using MegaTran 2.0 (Cat# [TT210002]).