

Recombinant Human PAOX Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAOX-5304H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAOX MS Standard C13 and N15-labeled recombinant protein (NP_997011) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Flavoenzyme which catalyzes the oxidation of N(1)-acetylspermine to spermidine and is thus involved in the polyamine back-conversion. 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.
Molecular Mass	51.8 kDa
AA Sequence	MESTGSVGEAPGGPRVLVGGGIAGLGAAQRLCGHSAPHLRVLEATARAGGRIRS ERCFGGVVEVGAHWIHGPSRGNPVFQLAAEYGLLGEKELSQENQLVETGGHVGLP SVSYASSGASVSLQLVAEMATLFYGLIDQTREFLHAAETPVPSVGEYLLKKEIGQHVA GWTEDEETRKLKLAVLNSFFNLECCVSGTHSMDLVALAPFGEYTVLPGLDCTFSKG YQGLTNCMMAALPEDTVVFEKPVKTIHWNGSFQEAAFPGETFPVSVECEDGDRFPA HHVIVTVPLGFLREHLDTFFDPPLPAEKAEAIRKIGFGTNNKIFLEFEFPFWEPDCQLI

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QLVWEDTSPLEDAAPELQDAWFRKLIGFVVLPAFASVHVLGFIAGLESEFMETLSD
EEVLLCLTQVLRRTAPDPVCGGSHTSHVLLHDARGSAVGMEGGRPPQSVGPAG
AAAQAQALAGPSLLCSTRVGGRLGPSFLLTDFSLATRTRPLEQKLISEEDLAANDILD
YKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PAOX polyamine oxidase [Homo sapiens (human)]

Official Symbol PAOX

Synonyms PAOX; polyamine oxidase (exo-N4-amino); peroxisomal N(1)-acetyl-spermine/spermidine oxidase; PAO; peroxisomal N1-acetyl-spermine/spermidine oxidase; MGC45464; DKFZp434J245;

Gene ID 196743

mRNA Refseq NM_207128

Protein Refseq NP_997011

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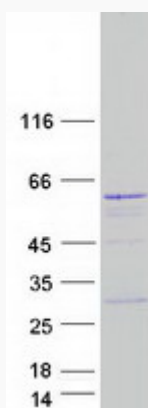
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MIM 615853

UniProt ID Q6QHF9

SDS-PAGE



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