ODC1 Protein, Human (HEK293, His-T7)

Cat. No.:	HY-P71109
Synonyms:	Ornithine decarboxylase; ODC1;
Species:	Human
Source:	E. coli
Accession:	P11926 (M1-V461)
Gene ID:	4953
Molecular Weight:	25 &58 kDa

PROPERTIES

AA Sequence	MNNFGNEEFD CHFLDEGFTA KDILDQKINE VSSSDDKDAF YVADLGDILK KHLRWLKALP RVTPFYAVKC NDSKAIVKTL AATGTGFDCA SKTEIQLVQS LGVPPERIIY ANPCKQVSQI KYAANNGVQM MTFDSEVELM KVARAHPKAK LVLRIATDDS KAVCRLSVKF GATLRTSRLL LERAKELNID VVGVSFHVGS GCTDPETFVQ AISDARCVFD MGAEVGFSMY LLDIGGGFPG SEDVKLKFEE ITGVINPALD KYFPSDSGVR IIAEPGRYYV ASAFTLAVNI IAKKIVLKEQ TGSDDEDESS EQTFMYYVND GVYGSFNCIL YDHAHVKPLL QKRPKPDEKY YSSSIWGPTC DGLDRIVERC DLPEMHVGDW MLFENMGAYT VAAASTFNGF QRPTIYYVMS GPAWQLMQQF QNPDFPPEVE EQDASTLPVS CAWESGMKRH RAACASASIN V
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 8% Trehalose, 2% Mannitol, 4 mM TCEP, 0.05% Tween 80, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	APOA1BP protein is a key enzyme responsible for the epimerization of the S- and R-forms of NAD(P)HX, a damaged derivative of NAD(P)H resulting from enzymatic or heat-dependent hydration. This crucial catalytic activity is a prerequisite for the subsequent repair of both epimers of NAD(P)HX by the S-specific NAD(P)H-hydrate dehydratase. Additionally, APOA1BP exhibits a regulatory role in angiogenesis by facilitating cholesterol efflux from endothelial cells to high-density lipoprotein (HDL). This dual functionality underscores its significance in cellular metabolism and vascular processes, positioning APOA1BP as a key player in maintaining cellular homeostasis and influencing angiogenic pathways.

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