

Recombinant Human Ornithine Decarboxylase 1, His-tagged

Cat. No. ODC1-2497H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ODC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 53.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-461aa
Description	ODC1 is the initial and rate-limiting enzyme in the biosynthetic pathway of polyamines and is involved in the conversion of ornithine to putrescine. ODC1 plays an important role in diverse biological processes, including cell growth, differentiation, transformation and apoptosis. Overexpression of the ODC1 gene plays important roles in cell proliferation and the development of cancer.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
Molecular Mass	53.5 kDa (484aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNFGNE EFDCHFLDEG FTAKDILDQK INEVSSDDK DAFYVADLGD ILKKHLRWLK ALPRVTPFYA VKCNDSKAIV KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SQIKYAANNG VQMMTFDSEV ELMKVARAHP KAKLVLRAT DDSKAVCRLS VKFGATLRTS RLLLERAKEL NIDVVGVSFH VGSGCTDPET FVQAISDARC VFDMGAEVGF

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SMYLLDIGGG FPGSEDVKLK FEEITGVINP ALDKYFPSDS GVRIIAEPGR
 YYVASAFTLA VNIIAKKIVL KEQTGSDDDED ESSEQTFMYV VNDGVYGSFN
 CILYDHAHVK PLLQKRPKPD EKYSSSIWG PTCGLDRIV ERCDLPEMHV
 GDWMLFENMG AYTVAASTF NGFQRPTIYY VMSGPAWQLM QQFQNPDPFP
 EVEEQDASTL PVSCAWESGM KRHRAACASA SINV

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ODC1 ornithine decarboxylase 1 \[Homo sapiens \]](#)

Official Symbol ODC1

Synonyms ODC1; ornithine decarboxylase 1; ornithine decarboxylase; ODC;

Gene ID [4953](#)

mRNA Refseq [NM_002539](#)

Protein Refseq [NP_002530](#)

MIM [165640](#)

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UniProt ID	P11926
Chromosome Location	2p25
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	lyase activity; ornithine decarboxylase activity;

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