

# Recombinant Human Ornithine Decarboxylase 1, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-461aa
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
<b>Molecular Mass</b>	53.5 kDa (484aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMNFGNE EFDCHFLDEG FTAKDILDQK INEVSSDDK DAFYVADLGD ILKKHLRWLK ALPRVTPFYA VKCNDSKAIV KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SQIKYAANNG VQMMTFDSEV ELMKVARAHP KAKLVLRIAT DDSKAVCRLS VKFGATLRTS RLLLERAKEL NIDVVGVSFH VGSGCTDPET FVQAISDARC VFDMGAEVGF

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SMYLLDIGGG FPGSEVVKLK FEEITGVINP ALDKYFPSDS GVRIIAEPGR  
 YYVASAFTLA VNIIAKKIVL KEQTGSDDDED ESSEQTFMYV VNDGVYGSFN  
 CILYDHAHVK PLLQKRPKPD EKYYSSSIWG PTCDGLDRIV 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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<b>UniProt ID</b>	P11926
<b>Chromosome Location</b>	2p25
<b>Pathway</b>	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;
<b>Function</b>	lyase activity; ornithine decarboxylase activity;

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