

Recombinant Human ODC1

Cat. No. ODC1-30519TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Ornithine Decarboxylase with N terminal proprietary tag, 76.82kDa.
Species	Human
Source	Wheat Germ
ProteinLength	461 amino acids
Description	This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter.
Molecular Weight	76.820kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

MNNFGNEEFDCHFLDEGFTA KDILDQKINEVSSSSDDKDAF YVADLGDILKKHLRWLK
ALPRVTPFYAVKCNDSKAIVKTL AATGAGFDCASKTEIQLVQSLGVPPERIIYANPCK
QVSQI KYAANNGVQMMTFDSEVELMKVARAHPKAKLVLRATDDS KAVCRLSVKF
GATLRTSRLLLERAKELNIDVVGVSFHVGS GCTDPETFVQAI SDARCVFDMGAEVG
FSMYLLDIGGGFPG SEDVKLKFEETGVINPALDKYFPSDSGVRIIAEPGRYYV ASAF
TLAVNIIAKKIVLKEQTGSDDDEDESSEQTFMYVND GVGYSFNCILYDHAHVKPLLQK
RPKPDEKYYSSSIWGPTC DGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTF
NGF QRPTIYYVMSPAWQLMQQFQNPDPPEVEEQDASTLPVS CAWESGMKRH
RAACASASINV

Sequence Similarities

Belongs to the Orn/Lys/Arg decarboxylase class-II family.

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;
Function	lyase activity; ornithine decarboxylase activity;

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