

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: 8.00 Constituents: 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

MNCFGNEEFDCHFLDEGFTAkdILDQKINEVSSSDDKDAF YVADLGDILKKHLRWLk
 ALPRVTPFYAVKCNDSKAIVKTL AATGAGFDCASKTEIQLVQSLGVPPERIIYANPCK
 QVSQI KYAANNGVQMMTFDSEVELMKVARAHPKAKLVLRIATDDS KAVCRLSVKF
 GATLRTSRLLLERAKELNIDVVGVSFHVGS GCTDPETFVQAISDARCVFDMGAEVg
 FSMYLLDIGGGFPG SEDVKLFEEITGVINPALDKYFPSDSGVRIIAEPGRYYV ASAF
 TLAVNIIAKKIVLKEQTGSDDDEDESSEQTFMYVND GVYGSFNCILYDHAHVKPLLQK
 RPKPDEKYYSSSIWGPTC DGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTF
 NGF QRPTIYYMSGPAWQLMQQFQNPDPPEVEEQDASTLPVS 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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