

Recombinant Human ODC1, GST-tagged

Cat. No. ODC1-2499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ODC1 (1 a.a. - 461 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.
Species	Human
Source	Wheat Germ
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 Mass	76.45 kDa
Sequence	MNNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLK ALPRVTPFYAVKCNDSKAIVKTLAATGAGFDCASKTEIQLVQSLGVPPERIIYANPCK QVSQIKYAANNGVQMMTFDSEVELMKVARAHPKAKLVRIATDDSKAVCRLSVKFG ATLRTSRLLLERAKELNIDVVGVSFHVSGGCTDPETFVQAISDARCVFDMGAEVGFS MYLLDIGGGFPGSEDEVKLKFEETGVINPALDKYFPSDSGVRIIAEPGRYYVASAFTLA VNIIAKKIVLKEQTGSDDDEDESSEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPK PDEKYYSSSIWGP TCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVA AASTFNGF QRPTIYYVMSPAWQLMQQFQNPDPPEVEEQDASTLPVSCAWESGMKRHRAAC

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	ASASINV
Purification	Glutathione Sepharose 4 Fast Flow
Storage buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.
OfficialSymbol	ODC1

GENE INFORMATION

Gene Name	ODC1 ornithine decarboxylase 1 [Homo sapiens]
Synonyms	ODC1; ornithine decarboxylase 1; ornithine decarboxylase; ODC; EC 4.1.1.17
Gene ID	4953
mRNA Refseq	NM_002539
Protein Refseq	NP_002530
MIM	165640
UniProt ID	P11926
Chromosome Location	2p25

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Pathway

Arginine and proline metabolism; Glutathione metabolism; Metabolism; Metabolism of amino acids and derivatives

Function

ornithine decarboxylase activity

**PDB rendering
based on 1d7k.**

