Active Recombinant Full Length Human ODC1 Protein, C-Flag-tagged

Cat. No. ODC1-59HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ODC1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Enzyme activity
Molecular Mass	51 kDa
AA Sequence	MNNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLK ALPRVTPFYAVKC NDSKAIVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCK QVSQIKYAANNGVQMMTFDSEVELM KVARAHPKAKLVLRIATDDSKAVCRLSVKFG

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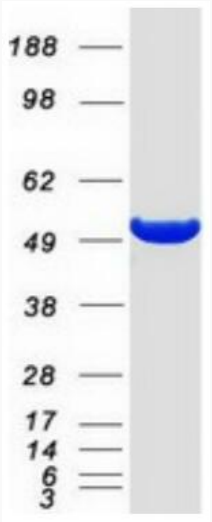
	ATLRTSRLLLERAKELNIDVVGVSFHVGSGCTDPETFVQ AISDARCVFDMGAEVGFS MYLLDIGGGFPGSEDVKLKFEEITGVINPALDKYFPSDSGVRIIAEPGRYYV ASAFTL AVNIIAKKIVLKEQTGSDDEDESSEQTFMYYVNDGVYGSFNCILYDHAHVKPLLQKRP KPDEKY YSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTFNG FQRPTIYYVMSGPAWQLMQQF QNPDFPPEVEEQDASTLPVSCAWESGMKRHRAACASASINVTRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	ODC1 ornithine decarboxylase 1 [Homo sapiens (human)]
Official Symbol	ODC1

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Synonyms	ODC; BABS; NEDBA; NEDBIA
Gene ID	4953
mRNA Refseq	NM_002539.3
Protein Refseq	NP_002530.1
MIM	165640
UniProt ID	P11926



Coomassie blue staining of purified ODC1 protein.

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