

Product datasheet for **TP306858M**

Ornithine Decarboxylase (ODC1) (NM_002539) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human ornithine decarboxylase 1 (ODC1), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC206858 protein sequence

Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MNNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLALPRVTPFYAVKC
NDSKAIVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMMTFDSEVELM
KVARAHPKAKLVLIATDDSKAVCRLSVKFGATLRTRSLLLLERAKELNIDVGVFSFHVGSCTDPETFVQ
AIDARCVFDMGAEVGFMSYLLDIGGGFPGSEDKLKFEEITGVINPALDKYFSDSGVRIIAEPGRYYV
ASAFTLAVNIIAKKIVLKEQTGSDDDESESEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKY
YSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQF
QNPDPPEVEEQDASTLPVSCAWESGMKRHRRAACASASINV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 51 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: Enzyme activity (PMID: [27257787](#))

Enzyme activity (PMID: [28346093](#))

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.



[View online »](#)

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_002530](#)

Locus ID: 4953

UniProt ID: [P11926](#)

RefSeq Size: 2307

Cytogenetics: 2p25.1

RefSeq ORF: 1383

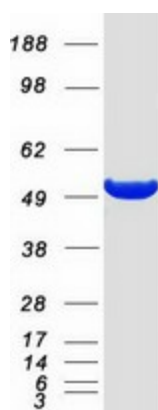
Synonyms: BABS; NEDBA; NEDBIA; ODC

Summary: 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. [provided by RefSeq, Dec 2013]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified ODC1 protein (Cat# [TP306858]). The protein was produced from HEK293T cells transfected with ODC1 cDNA clone (Cat# [RC206858]) using MegaTran 2.0 (Cat# [TT210002]).