

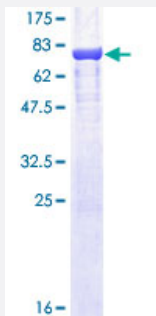
Full-Length

ODC1 (Human) Recombinant Protein (P01)

Catalog # H00004953-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ODC1 full-length ORF (AAH25296, 1 a.a. - 461 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNFGNEEFDCFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLKAIPRVTPF
YAVKCNDSKAVKTLAATGAGFDCASKTEIQLVQSLGVPPERIYANPCKQVSQIKYAANNGVQMM
TFDSEVELMKVARAHPKAKLVLRATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFH
VGSGCTDPETFVQAISDARCVFDMGAEVGFSGMYLLDIGGGFPGSEDKLKFEETGVINPALDKYF
PSDSGVRIIEPGRYYVASAFTLAVNIIAKKMLKEQTGSDDDESESEQTFMYVNDGVYGSFNCILY
DHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVA
STFNGFQRPTIYYMSGPAWQLMQQFQNPDPPEVEEQDASTLPVSCAWESGMKRHRAACAS
ASINV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.45

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

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.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ODC1

Entrez GeneID[4953](#)**GeneBank Accession#**[BC025296](#)**Protein Accession#**[AAH25296](#)**Gene Name**

ODC1

Gene Alias

ODC

Gene Description

ornithine decarboxylase 1

Omim ID[114500 165640](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyze s 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. [provided by RefSeq]

Other Designations

-

Publication Reference

- [Herbacetin is a novel allosteric inhibitor of ornithine decarboxylase with antitumor activity.](#)

Kim DJ, Roh E, Lee MH, Oi N, Lim DY, Kim MO, Cho YY, Pugliese A, Shim JH, Chen H, Cho EJ, Kim JE, Kang SC, Paul S, Kang HE, Jung JW, Lee SY, Kim SH, Reddy K, Yeom YI, Bode AM, Dong Z.

Cancer Research 2016 Mar; 76(5):1146.

Application: Func, Herbacetin

Pathway

- [Arginine and proline metabolism](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Neoplasm Recurrence](#)
- [Precancerous Conditions](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)