

Recombinant Human ODC1 Protein, His-tagged

Cat. No. ODC1-2525H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ODC1 Protein (Ile234-Ala453) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile234-Ala453
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.9 kDa Accurate Molecular Mass: 27 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ODC1 ornithine decarboxylase 1 [Homo sapiens (human)]
Official Symbol	ODC1
Synonyms	ODC1; ornithine decarboxylase 1; ornithine decarboxylase; ODC;
Gene ID	4953
mRNA Refseq	NM_002539
Protein Refseq	NP_002530
MIM	165640

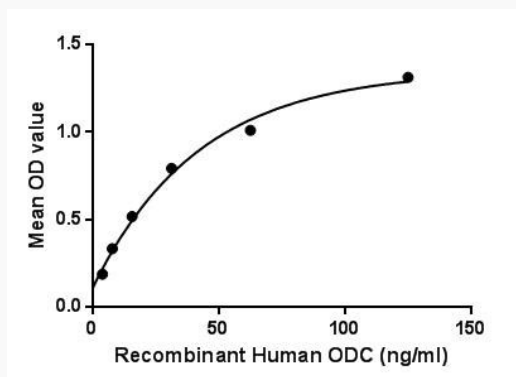
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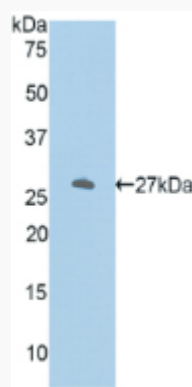
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Bioactivity



Binding activity

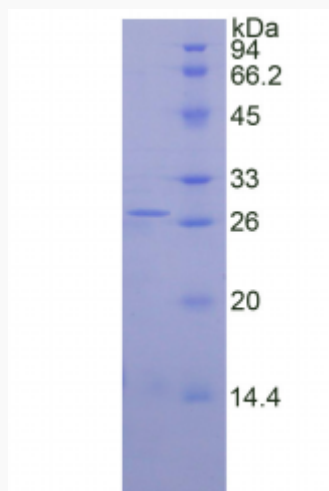
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