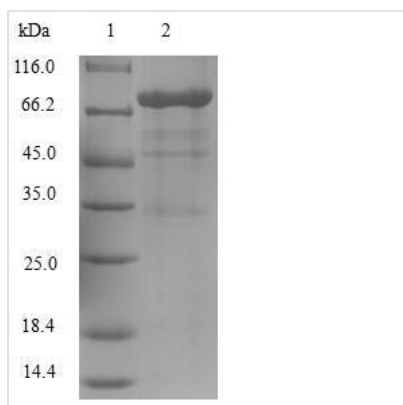


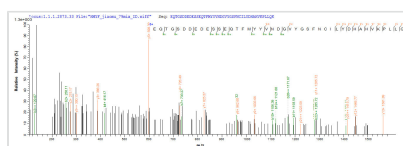


Recombinant Human Ornithine decarboxylase (ODC1)

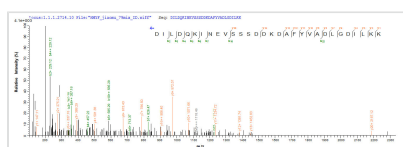
Product Code	CSB-EP016269HU
Relevance	Key enzyme of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine.
Abbreviation	Recombinant Human ODC1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P11926
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNCFGNEEFDCFLDEGFTAKDILDQKINEVSSDDKDAFYVADLGDILKKHLR WLKALPRVTPFYAVKCNDSKAIVKTLAATGTGFDCASKTEIQLVQSLGVPPERII YANPCKQVSQIKYAANNGVQMMTFDSEVELMKVARAHPKAKLVLRATDDSKA VCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVSGCTDPETFVQAISDAR CVFDMGAEVGFMSYLLDIGGGFPGSEDEVKLKFEETGVINPALDKYFPSDSGV RIIAEPGRYYVASAFTLAVNIIAKKIVLKEQTGSDDDEDESSEQTFMYYYVNDGVYG SFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEMHV GDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQFQNPDPFPE VEEQDASTLPVSCAWESGMKRHRAACASASINV
Research Area	Signal Transduction
Source	E.coli
Target Names	ODC1
Protein Names	Recommended name: Ornithine decarboxylase Short name= ODC EC= 4.1.1.17
Expression Region	1-461aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	71.1 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP016269HU could indicate that this peptide derived from E.coli-expressed Human herpesvirus 2 (strain HG52) (HHV-2) (Human herpes simplex virus 2) ODC1 .



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP016269HU could indicate that this peptide derived from E.coli-expressed Human herpesvirus 2 (strain HG52) (HHV-2) (Human herpes simplex virus 2) ODC1 .

Description

CUSABIO team inserts the gene coding for the Human ODC1 protein (1-461aa) into a plasmid vector to form recombinant plasmid, which is then introduced into e.coli cells. e.coli cells demonstrating successful uptake of the recombinant plasmid are selected based on their ability to survive in the presence of a specific antibiotic. The positive e.coli cells are cultured under conditions that promote the expression of the gene of interest. A N-terminal 10xHis-SUMO tag and C-terminal Myc tag is linked to the protein. Following expression, affinity purification is used to isolate and purify the recombinant Human ODC1 protein from the cell lysate. Denaturing SDS-PAGE is then applied to resolve the resulting recombinant Human ODC1 protein, demonstrating a purity greater than 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.