

## ODC1 Human

**Description:** ODC1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 484 amino acids (1-461) and having a molecular mass of 53.5 kDa. ODC1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-188

For research use only.

**Synonyms:** ODC, Ornithine decarboxylase 1, EC 4.1.1.17.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MGSMNFGNE EFDCHFLDEG  
FTAKDILDQK INEVSSDDK DAFYVADLGD ILKKHLRWLK ALPRVTPFYA VKCNSKAIV  
KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SGIKYAANNG VQMMTFDSEV  
ELMKVARAHP KAKLVLRIT DDSKAVCRSL VKFGATLRSL RLLERAKEL NIDVVGVSFH  
VGSGCTDPET FV

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

The ODC1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Ornithine decarboxylase is the preliminary and rate-limiting enzyme in the biosynthetic pathway of polyamines and it takes part in the alteration of ornithine to putrescine. ODC1 is a key member of various biological processes, such as cell growth, transformation, differentiation and apoptosis. Overexpression of the ODC1 gene has a vital part in cell proliferation and the progress of cancer.

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