

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 VKCNDSKAIV
KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SQIKYAANNG VQMMTFDSEV
ELMKVARAHP KAKLVLRIAT DDSKAVCRLS VKFGATLRTS RLLLERAKEL 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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