
Product Data Sheet

Product Name: ODC1 Human

Cat. No.: GP22031

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ODC; Ornithine decarboxylase 1; EC 4.1.1.17.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMNFGNE EFDCHFLDEG FTAKDILDQK INEVSSDDK DAFYVADLGD ILKKHLRWLK ALPRVTPFYA VKCNSKAIV KTLAATGTGF DCASKTEIQL VQSLGVPPER IYANPCKQV SGIKYAANNG VQMMTFDSEV ELMKVARAHP KAKLVLRIAT DDSKAVCRLS VKFGATLRIS RLLLERAKEL NIDVVGVSFH VGSGCTDPET FVQAISDARC VFDMGAEVGF SMYLLDIGGG FPGSEVVKLK FEEITGVINP ALDKYFSPDS GVRIIAEPGR YYVASAFTLA VNIIAKKIVL KEQTGSDDDED ESSEQTFMYV VNDGVYGSFN CILYDHAHVK PLLQKRPKPD EKYSSSIWG PTCGLDRIV ERCDLPEMHV GDWMLFENMG AYTVAASTF NGFQRPTIYY VMSGPAWQLM QQFQNPDFPP EVEEQDASTL PVSCAWESGM KRHRAACASA SINV		
Formulation	The ODC1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.		

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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