
Product Data Sheet

Product Name: MDP1 Human
 Cat. No.: GP21910
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Magnesium-dependent phosphatase 1; MGC5987; MDP-1; FN6Pase; fructosamine-6-phosphatase; SFTB3; SFTPB; MDP1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMMARLPK LAVFDLDYTL WPFWVDTHVD PPFHKSSDGT VRDRRGQDVR LYPEVPEVLK RLQSLGVPGA AASRTSEIEG ANQLLELFDL FRYFVHREIY PGSKITHFER LQKKTGIPFS QMIFFDDERR NIVDVSKLGV TCIHIQNGMN LQTLSQGLET FAKAQTGPLR SSLEESPFEA.		
Formulation	The MDP1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.		

Introduction

Magnesium-dependent phosphatase 1 (MDP1) is a member of the HAD-like hydrolase superfamily. MDP1 is a magnesium-dependent phosphatase which may act as a tyrosine phosphatase. MDP1 is inhibited by vanadate and zinc, and slightly by calcium.

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.

Background

MDP1 Human Recombinant fused with a 24 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 200 amino acids (1-176 a.a.) and having a molecular mass of 22.7kDa. The MDP1 is purified by proprietary chromatographic techniques.

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

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