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Datasheet for ABIN1945414

**MDP1 Protein (AA 1-176) (His tag)**

## Overview

Quantity:	50 µg
Target:	MDP1
Protein Characteristics:	AA 1-176
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MDP1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Magnesium-Dependent Phosphatase 1/MDP1 (C-6His)
Sequence:	MARLPKLAVF DLDYTLWPFW VDTHTVPPFH KSSDGTVRDR RGQDVRLYPE VPEVLKRLQS LGVPGAAASR TSEIEGANQL LELFDLFRYF VHREIYPGSK ITHFERLQKK TGIPFSQMIF FDDERRNIVD VSKLGVTCIH IQNGMNLQTL SQGLETFKA QTGPLRSSLE ESPFEAVDHH HHHH
Characteristics:	Recombinant Human Magnesium-dependent phosphatase 1/MDP1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (AA 1-176) of Human MDP1 fused with a polyhistidine tag at the C-termin
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	MDP1
Alternative Name:	MDP1 ( <a href="#">MDP1 Products</a> )
Background:	MDP1, which is short for nesium-dependent phosphatase 1, is a 176 aa. protein. It has 3 forms by different alternative splicing. This protein belongs to the HAD-like hydrolase superfamily, and usually takes its function with Magnesium. It can be inhibited by vanadate and zinc, and slightly by calcium. MDP1 is a Magnesium-dependent phosphatase which may act as a tyrosine phosphatase.
Molecular Weight:	21.1 kDa
UniProt:	<a href="#">Q86V88</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months