



# Recombinant Protein Technical Manual

## Recombinant Human MDP1 Protein (His Tag)

RPES4064

### Product Data:

**Product SKU:** RPES4064

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q86V88

### Protein Information:

**Molecular Mass:** 21.1 kDa

**AP Molecular Mass:** 18 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Magnesium-dependent phosphatase 1; MDP; EC=3.1.3.48;

## Immunogen Information:

**Sequence:** Met 1-Ala176

## Background:

MDP1, which is short for magnesium-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.