

Human Dehydropeptidase-I / DPEP1 Protein (His Tag)

Catalog Number: 13543-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

MBD1; MDP; RDP

Protein Construction:

A DNA sequence encoding the human DPEP1 (P16444) (Met1-Ser385) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asp 17

Molecular Mass:

The recombinant human DPEP1 consists of 380 amino acids and predicts a molecular mass of 42.5 KDa. It migrates as an approximately 44-47 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

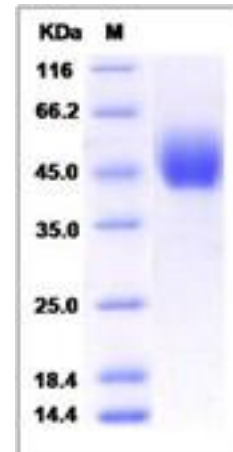
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Dehydropeptidase-I, also known as DPEP1, is a kidney membrane enzyme. Its expression in normal colonic mucosa is very low, but it is highly expressed in colorectal adenoma and cancer specimens and is negatively correlated with parameters of pathological aggressiveness and poor prognosis. The overexpression of DPEP1 suppressed tumor cells invasiveness and increased sensitivity to chemotherapeutic agent Gemcitabine. Growth factor EGF treatment decreased DPEP1 expression. Dehydropeptidase-I may be a candidate target in PDAC for designing improved treatments. It uses zinc as a cofactor and acts as a disulfide-linked homodimer.

References

1.Toiyama Y. et al., 2011, J Gastroenterol. 46 (2): 153-63. 2.Zhang G. et al., 2012, PLoS One. 7 (2): e31507. 3.Okamoto T. et al., 2011, Mod Pathol. 24 (2): 267-76.

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