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Datasheet for ABIN7318407 DPEP1 Protein (His tag)

Overview

Quantity:	50 µg
Target:	DPEP1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPEP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Dipeptidase 1/DPEP1 Protein (His Tag)
Sequence:	Asp17-Ser385
Characteristics:	Recombinant Human Dipeptidase 1 is produced by our Mammalian expression system and the target gene encoding Asp17-Ser385 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	DPEP1
Alternative Name:	Dipeptidase 1/DPEP1 (DPEP1 Products)
Background:	Background: Dipeptidase 1 (DPEP1) is a kidney membrane enzyme that belongs to the peptidase M19 family. DPEP1 is a homodimer and is inhibited by L-penicillamine. DPEP1 hydrolyzes a variety of dipeptides and is implicated in renal metabolism of glutathione and its

Target Details

conjugates. DPEP1 is responsible for hydrolysis of the beta-lactam ring of antibiotics, such as penem and carbapenem. DPEP1 may play an important role in the regulation of leukotriene activity. DPEP1 expression in cancer is significantly higher than that in normal tissue. However, DPEP1 expression decreased with pathological differentiation, lymph-node and distant metastasis.

Synonym: Dipeptidase 1, Dehydropeptidase-I, Microsomal Dipeptidase, Renal Dipeptidase, hRDP, DPEP1, MDP, RDP, MBD1

Molecular Weight: 42.1 kDa

UniProt: [P16444](#)

Pathways: [Inositol Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.