Datasheet for ABIN7319223

UPB1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	UPB1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UPB1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human BUP1 Protein (His Tag)
Sequence:	Met 1-Glu384
Characteristics:	Recombinant Human beta-Ureidopropionase is produced by our E.coli expression system and the target gene encoding Met1-Glu384 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	UPB1
Alternative Name:	BUP1 (UPB1 Products)
Background:	Background: β-Ureidopropionase is a cytoplasmic protein which belongs to the CN hydrolase family of BUP subfamily. β-Ureidopropionase binds one zinc ion per subunit, catalyzes the last step in the pyrimidine degradation pathway. β-Ureidopropionase can convert N-carbamyl-beta-

Target Details

	aminoisobutyric acid and N-carbamyl-beta-alanine to beta-aminoisobutyric acid and beta-alanine, ammonia and carbon dioxide, respectively. The pyrimidine bases uracil and thymine are degraded via the consecutive action of dihydropyrimidine dehydrogenase (DHPDH), dihydropyrimidinase (DHP) and beta-ureidopropionase (UP) to beta-alanine and beta aminoisobutyric acid, respectively. Defects in β-Ureidopropionase are the cause of β-Ureidopropionase deficiency that is characterized by muscular hypotonia, dystonic movements, scoliosis, microcephaly and severe developmental delay. Synonym: Beta-Ureidopropionase, BUP-1, Beta-Alanine Synthase, N-Carbamoyl-Beta-Alanine Amidohydrolase, UPB1, BUP1
Molecular Weight:	44.2 kDa
UniProt:	Q9UBR1

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.