

Recombinant Human UPB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UPB1-967H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UPB1 MS Standard C13 and N15-labeled recombinant protein (NP_057411) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein that belongs to the CN hydrolase family. Beta-ureidopropionase catalyzes the last step in the pyrimidine degradation pathway. 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. UP deficiencies are associated with N-carbamyl-beta-amino aciduria and may lead to abnormalities in neurological activity.
Molecular Mass	43.2 kDa
AA Sequence	MAGAEWKSLEECLEKHLPLPDLQEVKRVLYGKELRKLDLPREAFEAAASREDFELQGYAFEAAEEQLRRPRIVHVGLVQNRIPANAPVAEQVSALHRRRIKAIVEVAAMCGVNII CFQEAWTMPFAFCTREKLPWTEFAESAEDGPTTRFCQKLAKNHDMMVVVSPILERDS EHGDVLWNTAVVISNSGAVLGKTRKNHIPRVGDFNESTYYMEGNLGHPVFQTQFGR IAVNICYGRHHPLNWL MY SINGAEIIFNPSATIGALSES LWPIEARNAAIANHCFTCAIN RVGTEHFPNEFTSGDGKKAHQDFGYFYGSSYVAAPDSSRTPGLSRSRDGLLVAKL

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	DLNLCQQVNDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKETRTRPLEQKLISEE DLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	UPB1 beta-ureidopropionase 1 [Homo sapiens (human)]
Official Symbol	UPB1
Synonyms	UPB1; ureidopropionase, beta; beta-ureidopropionase; BUP1; BUP-1; beta-alanine synthase; n-carbamoyl-beta-alanine amidohydrolase;
Gene ID	51733
mRNA Refseq	NM_016327
Protein Refseq	NP_057411
MIM	606673

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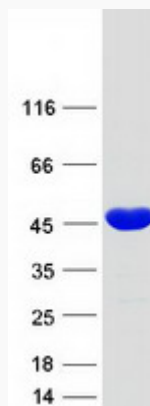
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UniProt ID

Q9UBR1

SDS-PAGE

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