

## Product datasheet for PH323365

### UPB1 (NM\_016327) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	UPB1 MS Standard C13 and N15-labeled recombinant protein (NP_057411)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223365
Predicted MW:	43.2 kDa
Protein Sequence:	>RC223365 protein sequence Red=Cloning site Green=Tags(s)
	MAGAEWKSLEECLKHLPLPDLQEVKRVLYGKELRKLDLPREAFEASREDFELQGYAFEAAEEQLRRPR IVHVGLVQNRIPANAPVAEQVSALHRRKAIIVEVAAAMCGVNIICFQEAWTMPFAFCTREKLPWTEFAE SAEDGPTTRFCQKLAKNHDMVVVSPILERDSEHGDLWNTAVVISNSGAVLGKTRKNHPRVGFNESTY YMEGNLGHVPVFTQFGRIAVNICYGRHHPLNWLMSINGAEIIFNPSATIGALSESLWPIEARNAAIANH CFTCAINRVGTEHFPNEFTSGDGKKAHQDFGYFYGSSYVAAPDSSRTPGLSRSRDGLLVAKLDLNLCCQV NDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKE
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_057411</a></u>
RefSeq Size:	2167
RefSeq ORF:	1152
Synonyms:	BUP1
Locus ID:	51733



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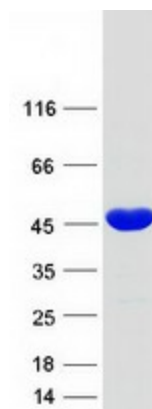
UniProt ID: [Q9UBR1](#), [A0A024R1H3](#), [B3KNC1](#)

Cytogenetics: 22q11.23

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Pathways:** beta-Alanine metabolism, Drug metabolism - other enzymes, Metabolic pathways, Pantothenate and CoA biosynthesis, Pyrimidine metabolism

### Product images:



Coomassie blue staining of purified UPB1 protein (Cat# [TP323365]). The protein was produced from HEK293T cells transfected with UPB1 cDNA clone (Cat# [RC223365]) using MegaTran 2.0 (Cat# [TT210002]).