

Product datasheet for **TP323365**

UPB1 (NM_016327) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human ureidopropionase, beta (UPB1), 20 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC223365 protein sequence
Red=Cloning site **Green**=Tags(s)

MAGAEWKSLEECLEKHLPLPDLQEVKRVLYGKELRKLDLPREAFEAASREDFELQGYAFEAAEEQLRRPR
IVHVGLVQNRIPANAPVAEQVSALHRRIKAIVEVAAMCGVNIICFQEAWTMPFAFCTREKLPWTEFAE
SAEDGPTTRFCQKLAKNHDMVVSPILERDSEHGDLVWNTAWVISNSGAVLGKTRKNHIPRVGDFNESTY
YMEGNLGHVPVFTQFGRIAVNICYGRHHPLNWLMSYNGAEIIFNPSATIGALSLESLWPIEARNAAIANH
CFTCAINRVGTEHFPNEFTSGDGKKAHQDFGYFYGSSVVAAPDSSRTPGLSRSRDGLLVAKLDLNLCCQQV
NDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 43 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_057411](#)

Locus ID: 51733



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

RefSeq Size: 2167

Cytogenetics: 22q11.23

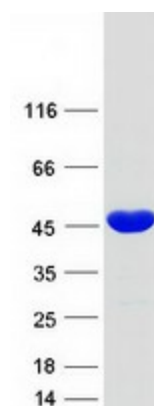
RefSeq ORF: 1152

Synonyms: BUP1

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]).