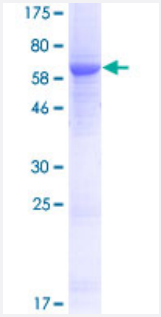
Full-Length

UPB1 (Human) Recombinant Protein (P01)

Catalog # H00051733-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human UPB1 full-length ORF (AAI39841.1, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAGAEWKSLEECLEKHLPLPDLQEVKRVLYGKELRKLDLPREAFEAASREDFELQGYAFEAAEE QLRRPRIVHVGLVQNRIPLPANAPVAEQVSALHRRIKAIVEVAAMCGVNIICFQEAWTMPFAFCTRE KLPWTEFAESAEDGPTTRFCQKLAKNHDMVVVSPILERDSEHGDVLWNTAVVISNSGAVLGKTR KNHIPRVGDFNESTYYMEGNLGHPVFQTQFGRIAVNICYGRHHPLNWLMYSINGAEIIFNPSATIGAL SESLWPIEARNAAIANHCFTCAINRVGTEHFPNEFTSGDGKKAHQDFGYFYGSSYVAAPDSSRTP GLSRSRDGLLVAKLDLNLCQQVNDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	68.64
Interspecies Antigen Sequence	Mouse (85); Rat (84)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — UPB1

Entrez GeneID	51733
GeneBank Accession#	BC139840
Protein Accession#	AAI39841.1
Gene Name	UPB1
Gene Alias	BUP1
Gene Description	ureidopropionase, beta
Omim ID	606673
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the CN hydrolase family. Beta-ureidopropionase cat alyzes the last step in the pyrimidine degradation pathway. The pyrimidine bases uracil and thymi ne are degraded via the consecutive action of dihydropyrimidine dehydrogenase (DHPDH), dihyd ropyrimidinase (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
Other Designations	beta-alanine synthase|beta-ureidopropionase|n-carbamoyl-beta-alanine amidohydrolase

Pathway

- beta-Alanine metabolism
- Drug metabolism - other enzymes
- Metabolic pathways
- Pantothenate and CoA biosynthesis
- Pyrimidine metabolism

Disease

- Cardiovascular Diseases
- Colorectal Neoplasms
- Diabetes Mellitus
- Edema