

BUP-1 Protein, Human (His)

Cat. No.:	HY-P7688
Synonyms:	rHuBUP-1, His; Beta-Ureidopropionase; BUP-1
Species:	Human
Source:	E. coli
Accession:	Q9UBR1 (M1-E384)
Gene ID:	51733
Molecular Weight:	Approximately 42.0 kDa

PROPERTIES

AA Sequence	<pre> M A G A E W K S L E E C L E K H L P L P D L Q E V K R V L Y G K E L R K L D L P R E A F E A A S R E D F E L Q G Y A F E A A E E Q L R R P R I V H V G L V Q N R I P L P A N A P V A E Q V S A L H R R I K A I V E V A A M C G V N I I C F Q E A W T M P F A F C T R E K L P W T E F A E S A E D G P T T R F C Q K L A K N H D M V V V S P I L E R D S E H G D V L W N T A V V I S N S G A V L G K T R K N H I P R V G D F N E S T Y Y M E G N L G H P V F Q T Q F G R I A V N I C Y G R H H P L N W L M Y S I N G A E I I F N P S A T I G A L S E S L W P I E A R N A A I A N H C F T C A I N R V G T E H F P N E F T S G D G K K A H Q D F G Y F Y G S S Y V A A P D S S R T P G L S R S R D G L L V A K L D L N L C Q Q V N D V W N F K M T G R Y E M Y A R E L A E A V K S N Y S P T I V K E H H H H H H </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The pyrimidine bases uracil and thymine are degraded via the consecutive action of dihydropyrimidine dehydrogenase
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(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 [1].

REFERENCES

[1]. Entrez Gene: UPB1 ureidopropionase, beta.

Caution: Product has not been fully validated for medical applications. For research use only.

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