

Human BPHL Protein (His Tag)

Catalog Number: 13675-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

BPH-RP; MCNAA; VACVASE; 2010012D11Rik; 5730533B08Rik; AI115341

Protein Construction:

A DNA sequence encoding the mature form of human BPHL (Q86WA6-1) (Ser38-Gln291) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human BPHL consists of 268 amino acids and predicts a molecular mass of 30.7 KDa. It migrates as an approximately 31 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 50mM NaCl, 10% glycerol, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

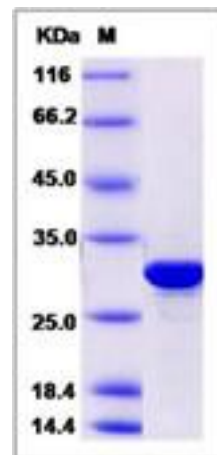
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

BPHL is a member of the serine protease family. BPHL is expressed large quantities in liver and kidney and in minor quantities in heart, intestine and skeletal muscle. BPHL is a specific alpha-amino acid ester hydrolase that prefers small, hydrophobic, and aromatic side chains and does not have a stringent requirement for the leaving group other than preferring a primary alcohol. It catalyzes the hydrolytic activation of amino acid ester prodrugs of nucleoside analogs such as valacyclovir and valganciclovir. BPHL also activates valacyclovir to acyclovir. It may play a role in detoxification processes.

References

- 1.Lai L. et al., 2008, J Biol Chem. 283 (14): 9318-27.
- 2.Davila S. et al., 2010, Genes Immun. 11 (3): 232-8.
- 3.Hendrickson SL. et al., 2010, PLoS One. 5 (9): e12862.

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