
Product Data Sheet

Product Name: BPHL Human
 Cat. No.: GP21448
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Biphenyl Hydrolase-Like (serine hydrolase); Bph-rp; Breast Epithelial Mucin-Associated Antigen; MCNAA; VACVASE; MGC41865; MGC125930.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSVTSAKVAV NGVQLHYQQT GEGDHAVLLL PGMLGSGETD FGPQLKNLNLK KLFTVVAWDP RGYGHSRPPD RDFPADFFER DAKDAVDLMK ALKFKKVSLG WSDGGITAL IAAAKYPSYI HKMVIWGANA YVTDEDSMIY EGIRDVSKWS ERTRKPLEAL YGYDYFARTC EKWVDGIRQF KHLDPGNICR HLLPRVQCPA LIVHGEKDPL VPRFHADFIH KHVKGSRLHL MPEGKHNLHL RFADEFNKLA EDFLQ		
Formulation	The BPHL protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0)1mM DTT, 50mM NaCl and 10% glycerol.		

Introduction

BPHL is a Serine hydrolase that is a part of the AB hydrolase superfamily which catalyzes the hydrolytic activation of amino acid ester prodrugs of nucleoside analogs. BPHL is expressed large quantities in liver and kidney and in minor quantities in heart, intestine and skeletal muscle. BPHL takes part in detoxification processes and is a specific alpha-amino acid ester hydrolase which favors small, hydrophobic, and aromatic side chains and does not have a strict necessity for the leaving group except for favoring a primary alcohol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

BPHL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 275

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

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amino acids (38-291a.a.) and having a molecular mass of 31.1kDa.BPHL is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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