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BPHL Human

Catalog #:ENPS-062

For research use only.

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

Synonyms: Biphenyl Hydrolase-Like (serine hydrolase), Bph-rp, Breast Epithelial Mucin-Associated Antigen, MCNAA, Valacyclovirase, VACVASE, Valacyclovir Hydrolase, MGC41865, MGC125930.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSVTSAKVAV NGVQLHYQQT GEGDHAVLLL PGMLGSGETD FGPQLKNLNK KLFTVVAWDP RGYGHSRPPD RDFPADFFER DAKDAVDLMK ALKFKKVSLL GWSDGGITAL IAAAKYPSYI HKMVIWGANA YVTDEDSMIY EGIRDVSKWS ERTRKPLEAL YGYDYFARTC EKWVDGIRQF KHLPDGNICR HLLPRVQCPA LIVHGEKDPL VP

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
The BPHL protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0)1mM DTT, 50mM NaCl and 10% glycerol.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
BPHL is a Serine hydrolase that is a part of the AB hydrolase superfamily which catalyzes the hydrolytic activation of amino acid ester prodrμgs of nucleoside analogs such as valacyclovir and valganciclovir. 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.

Storage:
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.

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