BPHL Protein, Human (P.pastoris, His-Myc)

Cat. No.:	HY-P71838
Synonyms:	Biphenyl hydrolase like; Biphenyl hydrolase related; Biphenyl hydrolase-like protein; Biphenyl hydrolase-related protein; Bph-rp; Bphl; Bphrp; VACVase; Valacyclovir hydrolase; Valacyclovirase
Species:	Human
Source:	P. pastoris
Accession:	Q86WA6 (38S-291Q)
Gene ID:	670
Molecular Weight:	Approximately 32.3 kDa

PROPERTIES

AA Sequence	S V T S A K V A V N G V Q L H Y Q Q T G E G D H A V L L L P G M L G S G E T D F G P Q L K N L N K K L F T V V A W D P R G Y G H S R P P D R D F P A D F F E R D A K D A V D L M K A L K F K K V S L L G W S D G G I T A L I A A A K Y P S Y I H K M V I W G A N A Y V T D E D S M I Y E G I R D V S K W S E R T R K P L E A L Y G Y D Y F A R T C E K W V D G I R Q F K H L P D G N I C R H L L P R V Q C P A L I V H G E K D P L V P R F H A D F I H K H V K G S R L H L M P E G K H N L H L R F A D E F N K L A E D F L Q
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BPHL protein, a serine hydrolase, serves as a catalyst for the hydrolytic activation of amino acid ester prodrugs, exemplified by nucleoside analogs like valacyclovir and valganciclovir. Notably, it facilitates the conversion of valacyclovir to acyclovir through hydrolysis. Beyond its role in drug activation, BPHL is implicated in potential detoxification processes. As a specific alpha-amino acid ester hydrolase, it displays a preference for small, hydrophobic, and aromatic side chains, without

imposing strict requirements on the leaving group, except for a preference toward a primary alcohol. Existing as a monomer, BPHL may also engage in the formation of homodimers.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA