

BAR/Phosphinothricin N-acetyltransferase Protein, Streptomyces hygroscopicus

Cat. No.:	HY-P70002
Synonyms:	rStPhosphinothricin N-acetyltransferase/BAR; Phosphinothricin N-acetyltransferase; PPT N-acetyltransferase; Phosphinothricin-resistance protein; bar
Species:	Others
Source:	E. coli
Accession:	P16426 (M1-I183)
Gene ID:	/
Molecular Weight:	18-20 kDa

PROPERTIES

AA Sequence	<pre> M S P E R R P A D I R R A T E A D M P A V C T I V N H Y I E T S T V N F R T E P Q E P Q E W T D D L V R L R E R Y P W L V A E V D G E V A G I A Y A G P W K A R N A Y D W T A E S T V Y V S P R H Q R T G L G S T L Y T H L L K S L E A Q G F K S V V A V I G L P N D P S V R M H E A L G Y A P R G M L R A A G F K H G N W H D V G F W Q L D F S L P V P P R P V L P V T E I </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 12.5 mM Tris-HCl, 50 mM NaCl, 5% Trehalose, 5% Mannitol, 0.01% Tween 80, 2 mM DTT, 1 mM EDTA, pH 8.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	The BAR/Phosphinothricin N-acetyltransferase protein plays a pivotal role in inactivating phosphinothricin (PPT) by facilitating the transfer of an acetyl group from acetyl CoA. Notably, it exhibits the ability to acetylate demethylphosphinothricin while remaining inactive toward PTT or glutamate. This enzymatic specificity positions BAR as a key effector in conferring resistance to phosphinothricin tripeptide (PTT or bialaphos), highlighting its functional significance in cellular responses to these compounds.
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Caution: Product has not been fully validated for medical applications. For research use only.

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