

Phosphinothricin N-acetyltransferase Protein, Streptomyces hygroscopicus, Recombinant (His)

General Information

Synonyms:	Phosphinothricin N-acetyltransferase;PPT N-acetyltransferase;bar;Phosphinothricin-resistance protein
Protein Construction:	1-183 aa
Species:	Streptomyces hygroscopicus
Expression Host:	E. coli
Accession:	P16426
Molecular Weight:	24.6 kDa (predicted)
AA Sequence:	MSPERRPADIRRATEADMPAVCTIVNHYIETSTVNFRTPEQPQEWTDLLVRLRERYPWLVAEVDGEVAGIAY AGPWKARNAYDWTAEADVYVSPRHQRTGLGSTLYTHLLKSLEAQGFKSVVAVIGLPNDPSVRMHEALGYAP RGMLRAAGFKHGNWHDVGFVQLDFSLPVPVPPVLPVTEI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Inactivates phosphinothricin (PPT) by transfer of an acetyl group from acetyl CoA. Can also acetylate demethylphosphinothricin but not PTT or glutamate. This enzyme is an effector of phosphinothricin tripeptide (PTT or bialaphos) resistance.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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