

# Recombinant S. hygroscopicus BAR

Catalog # EPT071

**Expression Host** E.coli

**DESCRIPTION** Recombinant Streptomyces Hygroscopicus

Phosphinothricin N-acetyltransferase is produced by

our E.coli expression system and the target gene

encoding Met1-Ile183 is expressed.

Accession P16426

**Synonyms** Phosphinothricin N-acetyltransferase; PPT

N-acetyltransferase; Phosphinothricin-resistance

protein; bar

Mol Mass 20.6 KDa

**AP Mol Mass** 18-20 KDa, reducing conditions

**Purity** Greater than 95% as determined by reducing

SDS-PAGE.

**Endotoxin** Less than 0.1 ng/μg (1 EU/μg) as determined by LAL

test.

**FORMULATION** Lyophilized from a 0.2 µm filtered solution of 12.5mM

Tris-HCl, 50mM NaCl, 5% Trehalose, 5% Mannitol,



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0.01% Tween 80, 2mM DTT, 1mM EDTA, pH8.5.

# RECONSTITUTION

Always centrifuge tubes before opening.Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### **SHIPPING**

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

#### **STORAGE**

Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

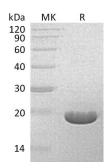
## **BACKGROUND**

Phosphinothricin N-acetyltransferase (PAT) is an enzyme that acetylates the free NH2 group of L-phosphinothricin (L-PPT) in the presence of acetyl-CoA as a co-substrate. It is highly specific for L-PPT and does not acetylate other L-amino acids or





structurally similar molecules. L-PPT is a glutamate analog that can inhibit glutamine synthetase activity in plants, resulting in the accumulation of ammonia to toxic levels and impairment of photosynthesis. The introduction of a PAT gene into a plant genome can confer resistance to glufosinate herbicide during post-emergent applications.



# **SDS-PAGE**



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