

Streptomyces Hygroscopicus Bar Recombinant Protein | bar recombinant protein

Recombinant Streptomyces Hygroscopicus Bar Protein

CATALOG # AAA174712	HOST E Coli
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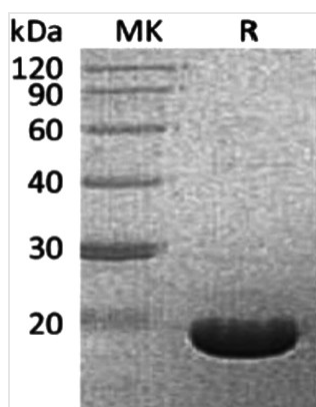
PRODUCT SYNONYMS

Streptomyces Hygroscopicus Bar; Recombinant Streptomyces Hygroscopicus Bar Protein; Phosphinothricin N-acetyltransferase; PPT N-acetyltransferase; Phosphinothricin-resistance protein; bar; bar recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of 12.5mM Tris-HCl, 50mM NaCl, 5% Trehalose, 5% Mannitol, 0.01% Tween 80, 2mM DTT, 1mM EDTA, pH8.5.
Sequence	Met1-Ile18 3
Sequence Length	183
Species	Streptomyces Hygroscopicus
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Preparation and Storage	Lyophilized protein should be stored at < -20°C, 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. This products is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

>95% as determined by reducing SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for bar recombinant protein	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	114833
UniProt Accession #	P16426
Molecular Weight	Molecular Mass: 20.6kDa Actual Protein Molecular Mass: 18-20kDa
NCBI Official Full Name	Phosphinothricin N-acetyltransferase
UniProt Protein Name	Phosphinothricin N-acetyltransferase
UniProt Gene Name	bar
UniProt Synonym Gene Names	PPT N-acetyltransferase
UniProt Entry Name	PAT_STRHY

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/bar-recombinant-protein-e-coli/174712>