

Product datasheet for **TP727458**

S. hygroscopicus Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Streptomyces hygroscopicus Phosphinothricin N-acetyltransferase/Bar
Species:	S. hygroscopicus
Expression cDNA Clone or AA Sequence:	Met1-Ile183
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Streptomyces hygroscopicus Phosphinothricin N-acetyltransferase is produced by our E.coli expression system and the target gene encoding Met1-Ile183 is expressed.
Stability:	12 months from date of despatch
Summary:	Phosphinothricin N-acetyltransferase (PAT) is an enzyme that acetylates the free NH ₂ 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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