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Product Datasheet

Recombinant *S. hygroscopicus* BAR EBT-EPT071

Article Name	Recombinant <i>S. hygroscopicus</i> BAR
Biozol Catalog Number	EBT-EPT071
Supplier Catalog Number	EPT071
Alternative Catalog Number	EBT-EPT071-50
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant <i>Streptomyces Hygroscopicus</i> Phosphinothricin N-acetyltransferase is produced by our <i>E.coli</i> expression system and the target gene encoding Met1-Ile183 is expressed....
Molecular Weight	Molecular weight: 20.6 KDa. Apparent molecular weight: 18-20 KDa, reducing conditions
UniProt	P16426
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: 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.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. 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