PhyA, Recombinant, Aspergillus Niger, aa24-467, His-SUMO-Tag (3-Phytase A)

Catalog number

374699

Supplier

United States Biological

Catalyzes the hydrolysis of inorganic orthophosphate from phytate.

Recombinant protein corresponding to aa24-467 from aspergillus niger phyA, fused to 6X His-SUMO-Tag at N-terminal, expressed in E. coli.

Molecular Weight

~64.8kD

AA Sequence

ASRNQSSCDTVDQGYQCFSETSHLWGQYAPFFSLANESVISPEVPAGCRVTFAQVLSRHGARYPTDSKGKKYSALI
EEIQQNATTFDGKYAFLKTYNYSLGADDLTPFGEQELVNSGIKFYQRYESLTRNIVPFIRSSGSSRVIASGKKFIEGFQS
TKLKDPRAQPGQSSPKIDVVISEASSSNNTLDPGTCTVFEDSELADTVEANFTATFVPSIRQRLENDLSGVTLTDTEV
TYLMDMCSFDTISTSTVDTKLSPFCDLFTHDEWINYDYLQSLKKYYGHGAGNPLGPTQGVGYANELIARLTHSPVHD
DTSSNHTLDSSPATFPLNSTLYADFSHDNGIISILFALGLYNGTKPLSTTTVENITQTDGFSSAWTVPFASRLYVEMM
QCQAEQEPLVRVLVNDRVVPLHGCPVDALGRCTRDSFVRGLSFARSGGDWAECFA

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 6 months after receipt at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in Tris-HCl, pH 8.0, 1mM EDTA, 50% glycerol.

Purity

≥90% (SDS-PAGE)

Grade

Purified

Storage

-20°C

MW

64.8

Antigen Modification

Recombinant, E. coli

Reference

1. Crystal structure of phytase from Aspergillus ficuum at 2.5-A resolution. Kostrewa D., Gruninger-Leitch F., D'Arcy A., Broger C., Mitchell D., van Loon A.P.G.M.Nat. Struct. Biol. 4:185-190(1997).