Creative Enzymes®

protein-Nπ-phosphohistidine-L-sorbose phosphotransferase

Cat. No. EXWM-3041

Lot. No. (See product label)

Introduction

Description	This enzyme is a component (known as enzyme II) of a phosphoenolpyruvate (PEP)-dependent, sugar transporting phosphotransferase system (PTS). The system, which is found only in prokaryotes, simultaneously transports its substrate from the periplasm or extracellular space into the cytoplasm and phosphorylates it. The phosphate donor, which is shared among the different systems, is a phospho-carrier protein of low molecular mass that has been phosphorylated by EC 2.7.3.9 (phosphoenolpyruvate-protein phosphotransferase). Enzyme II, on the other hand, is specific for a particular substrate, although in some cases alternative substrates can be transported with lower efficiency. The reaction involves a successive transfer of the phosphate group to several amino acids within the enzyme before the final transfer to the substrate.
Synonyms	sorABFM (gene names); L-sorbose PTS permease; EIISor; Enzyme IISor

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.206
Reaction	[protein]-Nπ-phospho-L-histidine + L-sorbose[side 1] = [protein]-L-histidine + L-sorbose 1-phosphate[side 2]
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.