

protein-N π -phosphohistidine-sucrose phosphotransferase

Cat. No. EXWM-3047

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

scrAB (gene names); sucrose PTS permease; EIIScr; Enzyme IIScr

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.211

Reaction

[protein]-N π -phospho-L-histidine + sucrose[side 1] = [protein]-L-histidine + sucrose 6G-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 °C for short term. For long term storage, store it at -20 °C~-80 °C.