

protein-N π -phosphohistidine-D-fructose phosphotransferase

Cat. No. EXWM-3037

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 usually a phospho-carrier protein of low molecular mass that has been phosphorylated by EC 2.7.3.9 (phosphoenolpyruvate-protein phosphotransferase). The enzyme from the bacterium *Escherichia coli* is an exception, since it is phosphorylated directly by EC 2.7.3.9. 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 fruAB (gene names); fructose PTS permease; EIIFru; Enzyme IIFru

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.7.1.202

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