Creative Enzymes®

L-fucokinase/GDP-fucose pyrophosphorylase from Bacteroides fragilis, Recombinant

Cat. No. NATE-1495

Lot. No. (See product label)

Introduction

Description	In enzymology, a fucokinase (EC 2.7.1.52) is an enzyme that catalyzes the chemical reaction: ATP + L-fucose → ADP + beta-L-fucose 1-phosphate. Thus, the two substrates of this enzyme are ATP and L-fucose, whereas its two products are ADP and beta-L-fucose 1-phosphate. In enzymology, a fucose-1-phosphate guanylyltransferase (EC 2.7.7.30) is an enzyme that catalyzes the chemical reaction: GTP + beta-L-fucose 1-phosphate → diphosphate + GDP-L-fucose. Thus, the two substrates of this enzyme are GTP and beta-L-fucose 1-phosphate, whereas its two products are diphosphate and GDP-L-fucose.
Synonyms	fucose kinase; L-fucose kinase; L-fucokinase; ATP:6-deoxy-L-galactose 1-phosphotransferase; ATP:L-fucose 1-phosphotransferase; fucokinase; EC 2.7.1.52; GDP fucose pyrophosphorylase; guanosine diphosphate L-fucose pyrophosphorylase; GDP-L-fucose pyrophosphorylase; GDP-fucose pyrophosphorylase; GTP:L-fucose-1-phosphate guanylyltransferase; fucose-1-phosphate guanylyltransferase; EC 2.7.7.30

Product Information

Species	Bacteroides fragilis
Source	E. coli
EC Number	EC 2.7.1.52/2.7.730
Molecular Weight	106 kDa
Purity	min 95% by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of Fuc-1-P from L-Fuc and ATP per minute at 37 °C.