

Glucose-1-Phosphate Thymidyltransferase (EcRmlA)

Product Information

Cat#	DIA-730
Descriptions	Glucose-1-phosphate thymidyltransferase (EcRmlA) from Escherichia coli mediates the reaction between glucose-1-phosphate and dTTP to produce dTDP-glucose, acts as the first rate-limiting enzyme in the dTDP-L-rhamnose biosynthetic pathway, and supports nucleotide sugar preparation for glycoengineering.
Applications	Glucose-1-phosphate thymidyltransferase (EcRmlA) is used for dTDP-L-rhamnose synthesis detection kits and nucleotide sugar preparation assay reagent development.
CAS No.	27-7-24
Enzyme Commission Number	EC 2.7.7.24
Reaction	Alpha-D-glucose 1-phosphate + dTTP = diphosphate + dTDP-Alpha-D-glucose
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of dTDP-Alpha-D-glucose from Alpha-D-glucose 1-phosphate and 1 Mumol dTTP per minute at 37°C.