

UDP, 1-253aa, E.coli, His tag, E.coli

Cat.NO.: TP04415

3th Edition

Synonyms:UrdPase, Upase, Uridine phosphorylase

Description:Uridine phosphorylase(UDP) catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose- or deoxyribose-1-phosphate. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis. This enzyme belongs to the family of glycosyltransferases, specifically the pentosyltransferases. The systematic name of this enzyme class is uridine:phosphate alpha-D-ribosyltransferase. Other names in common use include pyrimidine phosphorylase, UrdPase, UPH, and UPase. Recombinant E.coli UDP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

Molecular Weight:29.3kDa (273aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSKSDVFHLGLTKNDLQGATLAIVPGDPDRVEKIAALMDKPVKLASHREFTTWRA
ELDGKPVIVCSTGIGGPSTSI AVEELAQLGIRTFRLRIGTTGAIQPHINVDVLTASVRLDGASLHFAPLEFPAVADFE
CTTALVEAAKSIGATTHVGV TASSDTFY PGQERYDTYSGRVVRHFKGSMEEWQAMGVMNYEMESATLLTMCASQ
GLRAGMVAGVIVNRTQQEIPNAETMKQTESHAVKIVVEAARRLL

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.