NUDT14, 1-222aa, Human, His tag, E.coli

Cat.NO.: TP03224

3th Edition

Synonyms: Uridine diphosphate glucose pyrophosphatase, UGPP, UGPPase

Description: Uridine diphosphate glucose pyrophosphatase, also known as NUDT14, is a 222 amino acid cytoplasmic protein that contains one nudix hydrolase domain and belongs to the nudix hydrolase family. NUDT14 hydrolyzes ADP-ribose into ribose 5-phosphate and AMP, and UDP-glucose to glucose 1-phosphate and UMP. Existing as a homodimer, NUDT14 binds magnesium as a cofactor and is encoded by a gene located on human chromosome 14. Recombinant human NUDT14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:26.5 kDa (245aa) confirmed by MALDI-TOF

Sequences:
MGSSHHHHHHSSGLVPRGSHMGSMERIEGASVGRCAASPYLRPLTLHYRQNGAQKSWDFMKTHDSVTVLLFNSS
RRSLVLVKQFRPAVYAGEVERRFPGSLAAVDQDGPRELQPALPGSAGVTVELCAGLVDQPGLSLEEVACKEAWEE
CGYHLAPSDLRRVATYWSGVGLTGSRQTMFYTEVTDAQRSGPGGGLVEEGELIEVVHLPLEGAQAFADDPDIPKT
LGVIFGVSWFLSQVAPNLDLQ

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.