

NUDT14 Human

Description:NUDT14 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 245 amino acids (1-222) and having a molecular mass of 26.5kDa. NUDT14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-698

For research use only.

Synonyms:UGPP, UGPPase, Uridine diphosphate glucose pyrophosphatase, UDPG pyrophosphatase, Nucleoside diphosphate-linked moiety X motif 14, Nudix motif 14, NUDT14.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMERIEGA SVGRCAASPY
LRPLTLHYRQ NGAQKSWDFM KTHDSVTVLL FNSSRRSLVL VKQFRPAVYA GEVERRFPGS
LAAVDQDGPR ELQPALPGSA GVTVELCAGL VDQPGLSLEE VACKEAWEEC GYHLAPSDLR
RVATYWSGVG LTGSRQTMFY TEVTDAQRSR PGGGLVEEGE LIEVVHLPLE GAQAFADDPD
IPKTLGVIFG VS

Purity:Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The NUDT14 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Uridine diphosphate glucose pyrophosphatase (NUDT14), is a part of the nudix hydrolase family. NUDT14 is a cytoplasmic protein which contains one nudix hydrolase domain and acts as the sugar donor in numerous glycosylation reactions, including those involved in the production of glycogen. NUDT14 hydrolyzes ADP-ribose into ribose 5-phosphate and AMP, and UDP-glucose to glucose 1-phosphate and UMP. NUDT14 is a homodimer which binds magnesium as a cofactor and is encoded by a gene located on human chromosome 14.

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