

NUDT5, 1-219aa, Human, His tag, E.coli

Cat.NO.: TP03231

3th Edition

Synonyms:ADP-sugar pyrophosphatase, hYSAH1, YSA1, YSA1H.

Description:NUDT5 is a member of the nudix hydrolase family which eliminate toxic nucleotide derivatives from the cell. NUDT5 hydrolyzes ADP-ribose and ADP-mannose in the presence of magnesium, and also hydrolyzes other nucleotide sugars with low activity such as ADP-glucose and diadenosine diphosphate. As a nudix hydrolase, NUDT5 contains a central nudix motif and functions to eliminate toxic nucleotide metabolites from the cell while maintaining the levels of signaling nucleotides.

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

Molecular Weight:26.5 kDa (239aa), confirmed by MALDI-TOF, (Real molecular weight on SDS-PAGE will be shift up)

Sequences:

MGSSHHHHHSSGLVPRGSHMESQEPTESSQNGKQYIISEELISEGKWKLEKTTYMDPTGKTRTWESVKRTTRK
EQTADGVAVIPVLQRTLHYECIVLVKQFRPPMGGYCIFFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPA VCM
DPGLSNCTIHIVTVTINGDDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAK
PFEVPFLKF

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.