

## NUDT5 Human

**Description:**NUDT5 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 239 amino acids (1-219 a.a.) and having a molecular mass of 26.5 kDa. The NUDT5 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-554

For research use only.

**Synonyms:**hYSAH1, YSA1, YSA1H, ADP-sugar pyrophosphatase, EC=3.6.1.-, EC=3.6.1.13, Nucleoside diphosphate-linked moiety X motif 5, Nudix motif 5, HSPC115.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHH SSGLVPRGSH MESQEPTSS QNGKQYIISE  
ELISEGKWVK LEKTTYMDPT GKTRTWESVK RTTRKEQTAD GVAVIPVLQR TLHYECIVLV  
KQFRPPMGY CIEFPAGLID DGETPEAAAL RELEEETGYK GDIAECSPAV CMDPGLSNCT  
IHIVTVTING DDAENARPKP KPGDGEFVEV ISLPKNDLLQ RLDALVAEEH LTVDARVYSY  
ALALKHANAK PF

**Purity:**Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

NUDT5 Human 1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl & 10% glycerol.

**Stability:**

NUDT5 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent 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:**

NUDT5 is part of the nudix hydrolase family which remove toxic nucleotide derivatives from the cell. NUDT5 hydrolyzes ADP-ribose and ADP-mannose in the presence of magnesium, and in addition hydrolyzes nucleotide sugars with decreasing activity such as ADP-glucose and diadenosine diphosphate. As a nudix hydrolase, NUDT5 holds a central nudix motif and functions to eliminate toxic nucleotide metabolites from the cell while maintaining the levels of signaling nucleotides. NUDT5 is broadly expressed but is most abundant in liver as a homodimer.

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