Recombinant Human NUDT5, His-tagged

Cat. No. NUDT5-770H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NUDT5 protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. NW = 26.5 kDa (239aa), confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up).
Species	Human
Source	E.coli
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. NUDT5 is widely expressed but is most abundant in liver as a homodimer.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MESQEPTESS QNGKQYIISE ELISEGKWVK LEKTTYMDPT GKTRTWESVK RTTRKEQTAD GVAVIPVLQR TLHYECIVLV KQFRPPMGGY CIEFPAGLID DGETPEAAAL RELEEETGYK GDIAECSPAV CMDPGLSNCT IHIVTVTING DDAENARPKP KPGDGEFVEV ISLPKNDLLQ RLDALVAEEH LTVDARVYSY ALALKHANAK PFEVPFLKF
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M

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	NaCl.
Purity	> 85% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	NUDT5 nudix (nucleoside diphosphate linked moiety X)-type motif 5 [Homo sapiens]
Synonyms	NUDT5; nudix (nucleoside diphosphate linked moiety X)-type motif 5; YSA1; YSA1H; hYSAH1; ADP-sugar pyrophosphatase; nudix motif 5; nucleoside diphosphate-linked moiety X motif 5; nucleoside diphosphate linked moiety X-type motif 5; EC 3.6.1.13; EC 3.6.1.-
Gene ID	11164
mRNA Refseq	NM_014142
Protein Refseq	NP_054861
MIM	609230
UniProt ID	Q9UKK9
Chromosome Location	10p14

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Pathway	Purine metabolism
Function	ADP-ribose diphosphatase activity; ADP-sugar diphosphatase activity; hydrolase activity; magnesium ion binding

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