

Product datasheet for **TP300204**

NUDT5 (NM_014142) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nudix (nucleoside diphosphate linked moiety X)-type motif 5 (NUDT5), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200204 protein sequence Red =Cloning site Green =Tags(s)

MESQEPTESSQNGKQYIIEELISEGKWWKLEKTTYMDPTGKTRTWESVKRTRRKEQTADGVAVIPVLQR
TLHYECIVLVKQFRPPMGGYCIFFAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCT
IHIVVTINGDDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAK
PFEVPFLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	24.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_054861</u>
Locus ID:	11164



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UniProt ID: [Q9UUK9](#)

RefSeq Size: 1224

Cytogenetics: 10p14

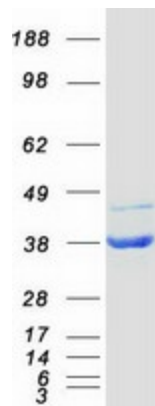
RefSeq ORF: 657

Synonyms: hNUDT5; YSA1; YSA1H; YSAH1

Summary: This gene belongs to the Nudix (nucleoside diphosphate linked moiety X) hydrolase superfamily. The encoded enzyme catalyzes the hydrolysis of modified nucleoside diphosphates, including ADP-ribose (ADPR) and 8-oxoGua-containing 8-oxo-dADP and 8-oxo-dGDP. Protein-bound ADP ribose can be hazardous to the cell because it can modify some amino acid residues, resulting in the inhibition of ATP-activated potassium channels. 8-oxoGua is an oxidized form of guanine that can potentially alter genetic information by pairing with adenine and cytosine in RNA. Presence of 8-oxoGua in RNA results in formation of abnormal proteins due to translational errors. [provided by RefSeq, Aug 2013]

Protein Pathways: Purine metabolism

Product images:



Coomassie blue staining of purified NUDT5 protein (Cat# TP300204). The protein was produced from HEK293T cells transfected with NUDT5 cDNA clone (Cat# [RC200204]) using MegaTran 2.0 (Cat# [TT210002]).