

Product datasheet for PH300204

NUDT5 (NM_014142) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NUDT5 MS Standard C13 and N15-labeled recombinant protein (NP_054861)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200204
Predicted MW:	24.3 kDa
Protein Sequence:	>RC200204 protein sequence Red=Cloning site Green=Tags(s) MESQEPTESSQNGKQYIISEELISEGKWKLEKTTYMDPTGKTRTWESVKRTRRKEQTADGVAVIPVLQR TLHYECIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCT IHIVTVTINGDDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAK PFEVPLKF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_054861
RefSeq Size:	1224
RefSeq ORF:	657
Synonyms:	hNUDT5; YSA1; YSA1H; YSAH1
Locus ID:	11164
UniProt ID:	Q9UUK9



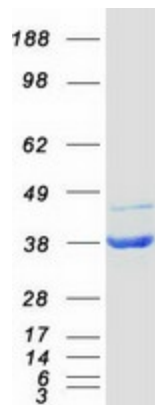
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Cytogenetics: 10p14

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]).