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Product datasheet for TP502441

Nudt5 (NM_016918) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse nudix (nucleoside diphosphate linked moiety X)-type motif 5 (Nudt5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR202441 protein sequence Red=Cloning site Green=Tags(s) METRESTESSPGKHLVTSEELISEGKWVKFEKTTYMDPTGKTRTWETVKLTTRKGKSADAVSVIPVLQRT LHHECVILVKQFRPPMGSYCLEFPAGFIEDGENPEAAALRELEEETGYKGEVAECSPAVCMDPGLSNCTT HVVTVTINGDDAGNVRPKPKPGDGEFMEVISLPKNDLLTRLDALGAEQHLTVDAKVYAYGLALKHANSKP FEVPFLKF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	24 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
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 after receiving vials.
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:	NP_058614
Locus ID:	53893
UniProt ID:	Q9JKX6
RefSeq Size:	1590

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Cytogenetics: 2 A1

RefSeq ORF: 657

Summary: Enzyme that can either act as an ADP-sugar pyrophosphatase in absence of diphosphate or catalyze the synthesis of ATP in presence of diphosphate (By similarity). In absence of diphosphate, hydrolyzes with similar activities various modified nucleoside diphosphates such as ADP-ribose, ADP-mannose, ADP-glucose, 8-oxo-GDP and 8-oxo-dGDP (PubMed:10722730). Can also hydrolyze other nucleotide sugars with low activity (PubMed:10722730). In presence of diphosphate, mediates the synthesis of ATP in the nucleus by catalyzing the conversion of ADP-ribose to ATP and ribose 5-phosphate (By similarity). Nuclear ATP synthesis takes place when dephosphorylated at Thr-44 (By similarity). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (By similarity). Does not play a role in U8 snoRNA decapping activity (PubMed:21070968). Binds U8 snoRNA (PubMed:21070968).[UniProtKB/Swiss-Prot Function]