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Product datasheet for AR09680PU-L

NUDT1 (1-156, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	NUDT1 (1-156, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGASRLYTLV LVLQPQRVLL GMKKRGFGAG RWNGFGGKVQ EGETIEDGAR RELQEESGLT VDALHKVGQI VFEFVGEPEL MDVHVFCTDS IQGTPVESDE MRPCWFQLDQ IPFKDMWPDD SYWFPLLLQK KKFHGYFKFQ GQDTILDYTL REVDTV
Tag:	His-tag
Predicted MW:	20.1 kDa
Concentration:	lot specific
Purity:	>95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT, 100 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human NUDT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_002443
Locus ID:	4521
UniProt ID:	P36639, A0A024R819
Cytogenetics:	7p22.3
Synonyms:	MTH1

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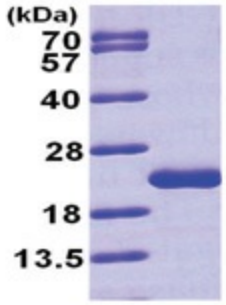
Summary: Misincorporation of oxidized nucleoside triphosphates into DNA/RNA during replication and transcription can cause mutations that may result in carcinogenesis or neurodegeneration. The protein encoded by this gene is an enzyme that hydrolyzes oxidized purine nucleoside triphosphates, such as 8-oxo-dGTP, 8-oxo-dATP, 2-hydroxy-dATP, and 2-hydroxy rATP, to monophosphates, thereby preventing misincorporation. The encoded protein is localized mainly in the cytoplasm, with some in the mitochondria, suggesting that it is involved in the sanitization of nucleotide pools both for nuclear and mitochondrial genomes. Several alternatively spliced transcript variants, some of which encode distinct isoforms, have been identified. Additional variants have been observed, but their full-length natures have not been determined. A rare single-nucleotide polymorphism that results in the production of an additional, longer isoform (p26) has been described. [provided by RefSeq, Dec 2018]

Protein Families: Stem cell - Pluripotency

Product images:



15% SDS-PAGE (3ug)