Recombinant Human NUDT10, His-tagged

Cat. No. NUDT10-982H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NUDT10 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography(1-164aa).
Species	Human
Source	E.coli
Description	NUDT10, also known as APS2 or DIPP3α, is a member of the Nudix hydrolase family of pyrophosphatases. Nudix hydrolases contain a characteristic Nudix domain and are responsible for catalyzing the hydrolysis of nucleoside diphosphate derivatives. It functions as a manganese-dependent polyphosphate phosphohydrolase with an optimum pH of 8.5. This protein specifically metabolizes diadendosine-polyphosphates and, to a lesser extent, diphosphoinositol polyphosphates.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT
Molecular Weight	19.5 kDa (172aa) confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MKCKPNQTRT YDPEGFKKRA ACLCFRSERE DEVLLVSSSR YPDRWIVPGG GMEPEEEPGG AAVREVYEEA GVKGKLGRLL GVFEQNQDPKHRTYVYVLTV TELLEDWEDS VSIGRKREWF KVEDAIKVLQ CHKPVHAEYL EKLKLGGSPT

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	NGNSMAPSSP DSDPLEHHHH HH
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	NUDT10 nudix (nucleoside diphosphate linked moiety X)-type motif 10 [Homo sapiens]
Synonyms	NUDT10; APS2; DIPP3a; hDIPP3alpha; diphosphoinositol polyphosphate phosphohydrolase 3-alpha; hAps2; DIPP3-alpha; DIPP-3-alpha; nudix motif 10; OTTHUMP00000023298; nucleoside diphosphate-linked moiety X motif 10; diadenosine 5'',5''''-P1,P6-hexaphosphate hydrolase 3-alpha; diphosphoinositol polyphosphate phosphohydrolase type 3 alpha; NP_694853.1; EC 3.6.1.52
Gene ID	170685
mRNA Refseq	NM_153183
Protein Refseq	NP_694853
MIM	300527
UniProt ID	Q8NFP7
Chromosome Location	Xp11.23
Function	diphosphoinositol-polyphosphate diphosphatase activity; hydrolase activity; metal ion binding

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