

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 DIPP3 α , 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 diadenosine-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 GMEPEEEPPGG AAVREVYEEA GVKGKLGRLG GVFEQNQDPKHRTYVYVLTV TELLEDWEDS VSIGRKREWF KVEDAIKVLQ CHKPVHAEYL EKCLKLGGSP

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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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