

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 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 GVFEQNQDPKHRTYVYVLT 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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