OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

# AR09969PU-N Human NUDT10 / APS2 / DIPP3A (1-164, His-tag) - Purified

**Alternate names:** 5'''-P1, DIPP-3-alpha, DIPP3-alpha, Diadenosine 5', Diphosphoinositol polyphosphate phosphohydrolase 3-alpha, Nucleoside diphosphate-linked moiety X motif 10, P6-hexaphosphate hydrolase 3-alpha, hDIPP3alpha

**Quantity:** 0.1 mg

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Background:** 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.

**Uniprot ID:** Q8NFP7

**NCBI:** NP_694853

**GeneID:** 170685

**Species:** Human

**Source:** E. coli

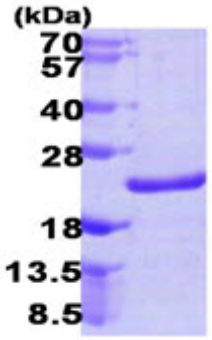
**Format:**
**State:** Liquid purified protein
**Purity:** >95%
**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

**Description:** Recombinant human NUDT10 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography.
**AA Sequence:**
MKCKPNQTRT YDPEGFKKRA ACLCFRSERE DEVLLVSSSR YPDRWIVPGG GMEPEEEPGG
AAVREVYEEA GVKGKLGRLL GVFEQNQDPK HRTYVYVLTV TELLEDWEDS VSIGRKREWF
KVEDAIKVLQ CHKPVHAEYL EKLKLGGSPT NGNSMAPSSP DSDPLEHHHH HH
**Molecular weight:** 19.5 kDa (172aa) confirmed by MALDI-TOF

**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.
Shelf life: one year from despatch.

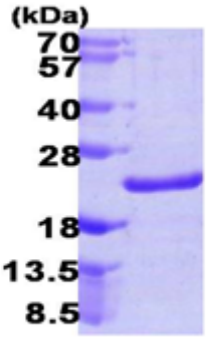
**General Readings:**
Hidaka K. et al. (2002) J. Biol. Chem. 277: 32730-32738.
Hua L.V. et al. (2003) Biochem. J. 373: 81-89.

## Pictures:




15% SDS-PAGE (3ug)

Recombinant human NUDT10, 1-164 aa, His-tagged




15% SDS-PAGE (3ug)