Recombinant human NUDT10 protein

Catalog Number: ATGP1029

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-164aa

UniProt No.
Q8NFP7

NCBI Accession No.
NP_694853

Alternative Names
Nudix hydrolase 10, Diphosphoinositol polyphosphate phosphohydrolase 3-alpha, hDIPP3alpha, Nucleoside diphosphate-linked moiety X motif 10, Nudix motif 10, hAps2, APS2, DIPP3A

PRODUCT SPECIFICATION

Molecular Weight
19.5 kDa (172aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
NuDT10, also known as APS2 or DIPP3alpha, 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. Recombinant human NuDT10 protein, fused to His-tag at C-terminus,

was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

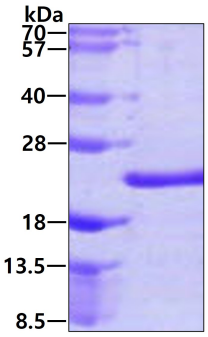
MKCKPNQTRT YDPEGFKKRA ACLCFRSERE DEVLLVSSSR YPDRWIVPGG GMEPEEEPGG AAVREVYEEA GVKGKLGRLL GVFEQNQDPK HRTYVYVLTV TELLEDWEDS VSIGRKREWF KVEDAIKVLQ CHKPVHAEYL EKLKLGGSPT NGNSMAPSSP DSDP<LEHHHH HH>

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.