

Recombinant Human NUDT3, His-tagged

Cat. No. NUDT3-3476H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human NUDT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	NUDT3, also known as DIPP, DIPP1 (diphosphoinositol polyphosphate phosphohydrolase 1), is a 172 amino acid cytoplasmic protein belonging to the nudix hydrolase family and DIPP subfamily. NUDT3 acts as a negative regulator of the ERK 1/2 pathway and hydrolyzes 5-phosphoribose 1-diphosphate. NUDT3 exists as a monomer and binds magnesium as a cofactor. Also NUDT3 is widely expressed but found at highest levels in liver, pancreas, brain and heart.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol
Molecular Weight	21.6 kDa (192aa) confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MMKLKSNQTR TYDGDGYKKR AACLCFRSES EEEVLLVSSS RHPDRWIVPG GGMEPEEEPS VAAVREVCEE AGVKGTLGRL

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VGIFENQERK HRTYVYVLIV TEVLEDWEDS VNIGRKREWF KIEDAIKVLQ
YHKPVQASYF ETLRQGY SAN NGTPVVATTY SVSAQSSMSG IR

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

NUDT3 nudix (nucleoside diphosphate linked moiety X)-type motif 3 [Homo sapiens]

Synonyms

nudix (nucleoside diphosphate linked moiety X)-type motif 3; DIPP; DIPP1; NUDT3; diphosphoinositol polyphosphate phosphohydrolase 1; DIPP-1; nudix motif 3; nucleoside diphosphate-linked moiety X motif 3; diadenosine 5",5"-P1,P6-hexaphosphate hydrolase 1; NP_006694.1; EC 3.6.1.52

Gene ID

11165

mRNA Refseq

NM_006703

Protein Refseq

NP_006694

MIM

609228

UniProt ID

O95989

**Chromosome
Location**

6p21.2

Function

diphosphoinositol-polyphosphate diphosphatase activity; hydrolase activity; magnesium ion binding

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