

Nudix hydrolase 7 (NUDT7), Recombinant Protein

Cat *RP05156*

Size 0.02 mg (*E-Coli*)/ 0.02 mg (*Yeast*)/ 0.1 mg (*E-Coli*)/ 0.1 mg
(*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 0.1

mg (*Baculovirus*)/ 1 mg (*E-Coli*)/ 1 mg (*Yeast*)/ 0.1 mg
(*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)
Species *Arabidopsis thaliana* (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Nudix hydrolase 7 (NUDT7)

Product Gene Name

NUDT7 recombinant protein

Product Synonym Gene Name

NUDT7

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MGTRAQQIPL LEGETDNYDG VVTMVEPMD SEVFTESLRA SLSHWREEGK KGIWIKLPLG LANLVEAAVS
EGFRYHHAEP EYLMLVSWIS ETPDTIPANA SHVVGAGALV INKNTKEVLV VQERSGFFKD KNVWKLPTGV
INEGEDIWTG VAREVEEETG IIADFVEVLA FRQSHKAILK KKTDMFFLCV LSPRSYDITE QKSEILQAKW
MPIQEYVDQP WNKKNEMFKF MANICQKKCE EEYLGFAIVP TTTSSGKESF IYCNADHAKR LKVS RDQASA SL

Sequence Positions

1-282, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

31,884 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Nudix hydrolase

NCBI Accession

NP_193008.1

NCBI GI

15235458

NCBI GenBank Nucleotide

NM_117341.5

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 0.1

826884 mg (*Baculovirus*)/ 1 mg (*E-Coli*)/ 1 mg (*Yeast*)/ 0.1 mg
(*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)

NCBI Official Full Name

MutT/nudix family protein

NCBI Official Symbol

NUDT7

NCBI Official Synonym Symbols

Arabidopsis thaliana Nudix hydrolase homolog 7; AtNUDT7; ATNUDX7; GFG1; GROWTH FACTOR GENE 1; T20K18.70; T20K18_70

NCBI Protein Information

MutT/nudix family protein

NCBI Summary

Encodes a protein with ADP-ribose hydrolase activity. Negatively regulates EDS1-conditioned plant defense and programmed cell death.

UniProt Gene Name

NUDT7

UniProt Synonym Gene Names

GFG1; NUDX7; AtNUDT7

UniProt Protein Name

Nudix hydrolase 7

UniProt Synonym Protein Names

ADP-ribose pyrophosphatase (EC:3.6.1.13); NADH pyrophosphatase (EC:3.6.1.22); Protein GROWTH FACTOR GENE 1

UniProt Primary Accession

Q9SU14

UniProt Secondary Accession

Q8LEK5

UniProt Related Accession

Q9SU14

UniProt Comments

Mediates the hydrolysis of some nucleoside diphosphate derivatives. Can use both NADH and ADP-ribose as substrates, but not 8-oxo-dGTP, cyclic ADP-ribose, GDP-mannose, UDP-glucose, ATP, or GTP. Exerts negative control of EDS1 signaling.

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