NUDT9 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	NUDT9, Blocking Peptide
Full Product Name	NUDT9 Blocking Peptide
Product Gene Name	NUDT9 blocking peptide
Product Synonym Names	Adenosine diphosphoribose pyrophosphatase; ADP ribose diphosphatase; ADP ribose phosphohydrolase; ADP ribose pyrophosphatase, mitochondrial precursor; ADP ribose pyrosphosphatase NUDT9; ADP-ribose diphosphatase; ADP-ribose phosphohydrolase; ADP-ribose pyrophosphatase, mitochondrial; ADPR PPase; ADPR-PPase; EC 3.6.1.13; Nucleoside diphosphate linked moiety X motif 9; Nucleoside diphosphate linked moiety X type motif 9; Nucleoside diphosphate-linked moiety X motif 9; Nudix (nucleoside diphosphate linked moiety X) type motif 9; Nudix hydrolase 9; Nudix motif 9; NUDT10; NUDT9; NUDT9_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NUDT9 peptide (MBS9621902) is used for blocking the activity of NUDT9 antibody (MBS9611949)
Molecular Weight	33,776 Da
OMIM	606022
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for NUDT9 blocking peptide	Blocking/Control
Related Product Information for NUDT9 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of NUDT9 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NUDT9 purchase	MBS9621902 is a blocking peptide targeting NUDT9.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUDT9. It may not necessarily be applicable to this product.

NCBI GI #	351722365
NCBI GeneID	53343
NCBI Accession #	NP_001234940.1

UniProt Primary Accession #	Q9BW91
UniProt Secondary Accession #	Q8NBN1; Q8NCB9; Q8NG25
UniProt Related Accession #	Q9BW91
GenBank Nucleotide #	NP_001234940.1
NCBI Official Full Name	ADP-ribose pyrophosphatase, mitochondrial isoform c
NCBI Official Synonym Full Names	nudix (nucleoside diphosphate linked moiety X)-type motif 9
NCBI Official Symbol	NUDT9
NCBI Official Synonym Symbols	NUDT10
UniProt Protein Name	ADP-ribose pyrophosphatase, mitochondrial
UniProt Synonym Protein Names	ADP-ribose diphosphatase; ADP-ribose phosphohydrolase; Adenosine diphosphoribose pyrophosphatase; ADPR-PPase; Nucleoside diphosphate-linked moiety X motif 9; Nudix motif 9
Protein Family	Nudix hydrolase
UniProt Gene Name	NUDT9
UniProt Synonym Gene Names	NUDT10; ADPR-PPase; Nudix motif 9
UniProt Entry Name	NUDT9_HUMAN
NCBI Protein Information	ADP-ribose pyrophosphatase, mitochondrial; ADP-ribose diphosphatase; ADP-ribose phosphohydrolase; ADP-ribose pyrosphosphatase NUDT9; ADPR-PPase; adenosine diphosphoribose pyrophosphatase; nucleoside diphosphate linked moiety X-type motif 9
NCBI Summary for NUDT9	The protein encoded by this gene belongs to the Nudix hydrolase family. Nudix boxes are found in a family of diverse enzymes that catalyze the hydrolysis of nucleoside diphosphate derivatives. This enzyme is an ADP-ribose pyrophosphatase that catalyzes the hydrolysis of ADP-ribose to AMP and ribose-5-P. It requires divalent metal ions and an intact Nudix motif for enzymatic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for NUDT9	NUDT9: Hydrolyzes ADP-ribose (ADPR) to AMP and ribose 5'- phosphate. Belongs to the Nudix hydrolase family. NudF subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; EC 3.6.1.13; Nucleotide Metabolism - purine; Hydrolase Chromosomal Location of Human Ortholog: 4q22.1 Cellular Component: mitochondrial matrix; intracellular Molecular Function: ADP-ribose diphosphatase activity; ADP-sugar diphosphatase activity; adenosine-diphosphatase activity Biological Process: nucleobase, nucleoside and nucleotide metabolic process; ADP catabolic process; IDP catabolic process
Research Articles on NUDT9	**1.** NUDT9 may be involved in the regulation of the menstrual cycle and may be related to the proliferation of glandular cells in the human endometrium
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