Cleavage and Polyadenylation Specificity Factor Subunit 5 (NUDT21) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cleavage and polyadenylation specificity factor subunit 5 (Nudt21), Recombinant Protein
Full Product Name	Recombinant Rat Cleavage and polyadenylation specificity factor subunit 5 (Nudt21)
Product Gene Name	Nudt21 recombinant protein
Product Synonym Gene Name	Nudt21
Sequence	SVVPPNRSQT GWPRGVNQFG NKYIQQTKPL TLERTINLYP LTNYTFGTKE PLYEKDSSVA ARFQRMREEF DKIGMRRTVE GVLIVHEHRL PHVLLLQLGT TFFKLPGGEL NPGEDEVEGL KRLMTEILGR QDGVLQDWVI DDCIGNWWRP NFEPPQYPYI PAHITKPKEH KKLFLVQLQE KALFAVPKNY KLVAAPLFEL YDNAPGYGPI ISSLPQLLSR FNFIYN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	26,240 Da
Sequence Positions	2-227, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q4KM65
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nudt21 recombinant protein	This protein is one subunit of a cleavage factor required for 3 RNA cleavage and polyadenylation processing. The interaction of the protein with the RNA is one of the earliest steps in the assembly of the 3 end processing complex and facilitates the recruitment of other processing factors. This gene encodes the 25kD subunit of the protein complex, which is composed of four polypeptides.
Other Notes	Small volumes of Nudt21 recombinant protein 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 Nudt21 purchase	MBS1319208 is a recombinant protein targeting Nudt21. Also known as Recombinant Rat Cleavage and polyadenylation specificity factor subunit 5 (Nudt21). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nudt21. It may not necessarily be applicable to this product.

NCBI GI #	84781636
NCBI GeneID	291877

NCBI Accession #	NP_001034093.1
UniProt Primary Accession #	Q4KM65
UniProt Related Accession #	Q4KM65
GenBank Nucleotide #	NM_001039004.1
NCBI Official Full Name	cleavage and polyadenylation specificity factor subunit 5
NCBI Official Synonym Full Names	nudix hydrolase 21
NCBI Official Symbol	Nudt21
NCBI Official Synonym Symbols	Cpsf5
UniProt Protein Name	Cleavage and polyadenylation specificity factor subunit 5
UniProt Synonym Protein Names	Nucleoside diphosphate-linked moiety X motif 21; Nudix motif 21
Protein Family	Nudix hydrolase
UniProt Gene Name	Nudt21
UniProt Synonym Gene Names	Cpsf5; Nudix motif 21
NCBI Protein Information	cleavage and polyadenylation specificity factor subunit 5
UniProt Comments for Nudt21	Component of the cleavage factor Im (CFIm) complex that plays a key role in pre-mRNA 3'-processing. Involved in association with CPSF6 or CPSF7 in pre-MRNA 3'-end poly(A) site cleavage and poly(A) addition. NUDT21/CPSF5 binds to cleavage and polyadenylation RNA substrates. The homodimer mediates simultaneous sequence-specific recognition of two 5'-UGUA-3' elements within the pre-mRNA. Binds to, but does not hydrolyze mono- and di-adenosine nucleotides. May have a role in mRNA export ().
Research Articles on Nudt21	**1.** Taken together, these results indicate that endogenous CFIm may promote neuritogenesis in developing neurons by coordinating events upstream of NGF-induced RhoA inactivation.
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