

dITP/XTP pyrophosphatase (rdgB) Recombinant Protein | rdgB recombinant protein

Recombinant Escherichia coli dITP/XTP pyrophosphatase (rdgB)

CATALOG # AAA116026	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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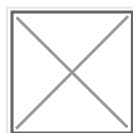
PRODUCT SYNONYMS

dITP/XTP pyrophosphatase (rdgB); Recombinant Escherichia coli dITP/XTP pyrophosphatase (rdgB); rdgB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-197aa; Full Length
Sequence	MQKVVLATGN VGKVRELASL LSDFGLDIVA QTDLGVDSAE ETGLTFIENA ILKARHAAKV TALPAIADDS GLAVDVLGGA PGIYSARYSG EDATDQKNLQ KLETMKDVP DDQRQARFHC VLVYLRHAED PTPLVCHGSW PGVITREPAG TGGFGYDPIF FVPSEGKTAA ELTREEKSAI SHRGQALKLL LDALRNG
Sequence Length	197
Species	Escherichia coli (strain K12)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for rdgB recombinant protein	Pyrophosphatase that catalyzes the hydrolysis of nucleoside triphosphates to their monophosphate derivatives, with a high preference for the non-canonical purine nucleotides XTP (xanthosine triphosphate), dITP (deoxyinosine triphosphate) and ITP. Can also efficiently hydrolyze 2'-deoxy-N-6-hydroxylaminopurine triphosphate (dHAPTP). Seems to function as a house-cleaning enzyme that removes non-canonical purine nucleotides from the nucleotide pool, thus preventing their incorporation into DNA RNA and avoiding chromosomal lesions.To a much lesser extent,is also able to hydrolyze GTP, dGTP and dUTP, but shows very low activity toward the canonical nucleotides dATP, dCTP and dTTP and toward 8-oxo-dGTP, purine deoxyribose triphosphate, 2-aminopurine deoxyribose triphosphate and 2,6-diaminopurine deoxyribose triphosphate
References	"Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110." Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T. Mol. Syst. Biol. 2:E1-E5(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16130855
NCBI GeneID	947429
NCBI Accession #	NP_417429.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P52061; Q2M9N9
Molecular Weight	41.0 kDa
NCBI Official Full Name	dITP/XTP pyrophosphatase
NCBI Official Symbol	rdgB
NCBI Official Synonym Symbols	ECK2949; JW2921; yggV
NCBI Protein Information	dITP/XTP pyrophosphatase
UniProt Protein Name	dITP/XTP pyrophosphatase
UniProt Gene Name	rdgB
UniProt Synonym Gene Names	NTPase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rdgb-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/116026>