

Human XTP3TPA / DCTPP1 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14577-H07E

General Information

Gene Name Synonym:

CDA03; RS21C6; XTP3TPA

Protein Construction:

A DNA sequence encoding the mature form of human XTP3TPA(NP_077001.1) (Met1-Thr170) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human XTP3TPA consists of 185 amino acids and predicts a molecular mass of 20.5 KDa. It migrates as an approximately 21 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 10% Glycerol, 100mM NaCl, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

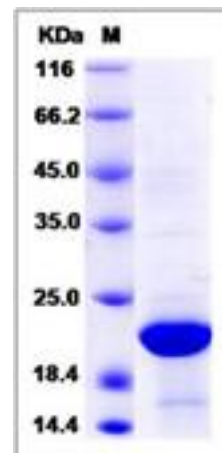
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

DCTPP1 hydrolyzes deoxynucleoside triphosphates (dNTPs) to the corresponding nucleoside monophosphates. It has a strong preference for modified dCTP. DCTPP1's activity is highest with 5-iodo-dCTP, followed by 5-bromo-dCTP, unmodified dCTP, 5-methyl-dCTP and 5-chloro-dCTP. DCTPP1 also hydrolyzes 2-chloro-dATP and 2-hydroxy-dATP with lower efficiency, and has even lower activity with unmodified dATP, dTTP and dUTP (in vitro). DCTPP1 does not hydrolyze ATP, UTP, ITP, GTP, dADP, dCDP or dGTP. It may protect DNA or RNA against the incorporation of non-canonical nucleotide triphosphates. DCTPP1 may also protect cells against inappropriate methylation of CpG islands by DNA methyltransferases.

References

1.Stelzl U. et al., 2005, Cell. 122 (6): 957-68. 2.Strausberg RL. et al., 2003, Proc Natl Acad Sci. 99 (26): 16899-903. 3.Moroz OV. et al., 2005, J Mol Biol. 347 (2): 243-55.

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