

## XTP3TPA Protein, Human (His)

<b>Cat. No.:</b>	HY-P77508
<b>Synonyms:</b>	dCTP pyrophosphatase 1; dCTPase 1; RS21C6; DCTPP1; CDA03
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9H773 (M1-T170)
<b>Gene ID:</b>	79077
<b>Molecular Weight:</b>	Approximately 19 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M S V A G G E I R G    D T G G E D T A A P    G R F S F S P E P T    L E D I R R L H A E            F A A E R D W E Q F    H Q P R N L L L A L    V G E V G E L A E L    F Q W K T D G E P G            P Q G W S P R E R A    A L Q E E L S D V L    I Y L V A L A A R C    R V D L P L A V L S            K M D I N R R R Y P    A H L A R S S S R K    Y T E L P H G A I S    E D Q A V G P A D I            P C D S T G Q T S T         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>XTP3TPA protein plays a crucial role in cellular processes by hydrolyzing deoxynucleoside triphosphates (dNTPs) to their corresponding nucleoside monophosphates. This enzyme exhibits a robust preference for dCTP and its analogs, such as 5-iodo-dCTP and 5-methyl-dCTP, showcasing high efficiency, possibly serving as a protective mechanism against the incorporation of genotoxic nucleotide analogs into DNA or RNA. The selective hydrolysis of these nucleotide triphosphates by XTP3TPA contributes to the maintenance of genomic integrity and may play a role in safeguarding cellular nucleotide pools from potentially harmful analogs.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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