

PTRH2 Protein, Human (His)

Cat. No.:	HY-P76559
Synonyms:	Peptidyl-tRNA hydrolase 2, mitochondrial; PTH 2; BIT1; CGI-147
Species:	Human
Source:	E. coli
Accession:	Q9Y3E5 (G63-Y179)
Gene ID:	51651
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	<p> G E Y K M I L V V R N D L K M G K G K V A A Q C S H A A V S A Y K Q I Q R R N P E M L K Q W E Y C G Q P K V V V K A P D E E T L I A L L A H A K M L G L T V S L I Q D A G R T Q I A P G S Q T V L G I G P G P A D L I D K V T G H L K L Y </p>
Biological Activity	Measured by its ability to inhibit chemoattract of A549 Human non-small cell lung cancer cells. The ED ₅₀ for this effect is 0.1557 µg/mL, corresponding to a specific activity is 6.422×10 ³ U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0, 10% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PTRH2, an enzyme with a potential affinity for peptidyl-tRNAs that dissociate from the ribosome during protein synthesis, is implicated in the promotion of caspase-independent apoptosis. Its regulatory role extends to the modulation of two transcriptional regulators, AES and TLE1, contributing to the intricate machinery that governs apoptotic processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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