

MPND Protein, Human

Cat. No.:	HY-P701478
Synonyms:	MPND; MPN domain-containing protein
Species:	Human
Source:	E. coli
Accession:	Q8N594 (M1-S471)
Gene ID:	84954
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The MPND protein is identified as a probable protease, and in addition, it functions as a sensor for N(6)-methyladenosine methylation on DNA (m6A). This role involves the recognition and binding of m6A DNA, subsequently leading to the degradation of the targeted DNA molecules. The ability of MPND to specifically interact with and respond to N(6)-methyladenosine methylation highlights its significance in the cellular machinery involved in DNA modification and degradation processes. Further exploration of the mechanisms underlying the protease activity and m6A sensing capabilities of MPND will provide valuable insights into its regulatory functions within the context of DNA modifications and cellular homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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