

## C1D Protein, Human (His)

Cat. No.:	HY-P74377
Synonyms:	Nuclear nucleic acid-binding protein C1D; hC1D; C1D
Species:	Human
Source:	E. coli
Accession:	Q13901 (M1-S141)
Gene ID:	10438
Molecular Weight:	Approximately 43 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 <sub>2</sub> O.
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	C1D, a multifaceted protein, orchestrates various cellular processes with distinct functional implications. It plays a pivotal role in recruiting the RNA exosome complex to pre-rRNA, facilitating the intricate 3'-5' end processing of the 5.8S rRNA, possibly in collaboration with MPHOSPH6. Additionally, C1D exhibits a unique capability to activate PRKDC, not only in the presence of linear DNA but also in the presence of supercoiled DNA. Notably, it can induce apoptosis through a p53/TP53 dependent pathway, showcasing its regulatory role in programmed cell death. Furthermore, C1D may modulate the formation of the TRAX/TSN complex and enhances transcriptional repression by NR1D1 and THRB. As a molecular entity, C1D exists in monomeric and homodimeric forms, interacting with a spectrum of proteins including NR1D1, THRA, THRB, NCOR1, NCOR2, EXOSC10, TSNAX, and RAC3. This intricate network of interactions underscores the diverse functions and regulatory potential of C1D in cellular biology.
------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA