**Proteins** 



## **Product** Data Sheet

## CNPY3/PRAT4A Protein, Human (HEK293, Fc)

Cat. No.: HY-P75680

Synonyms: Protein canopy homolog 3; CNPY3; CTG4A; ERDA5; PRAT4A; TNRC5

Species: HEK293 Source:

Q9BT09-1 (G31-P274) Accession:

Gene ID: 10695

Molecular Weight: Approximately 60-70 kDa due to the glycosylation.

## **PROPERTIES**

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$\Lambda \Lambda$	Sec	IIIΔN	60

GPSQAGAEEN DWVRLPSKCE VCKYVAVELK SAFEETGKTK EVIGTGYGIL DQKASGVKYT KSDLRLIEVT ETICKRLLDY SLHKERTGSN RFAKGMSETF ETLHNLVHKG VKVVMDIPYE LWNETSAEVA DLKKQCDVLV EEFEEVIEDW YRNHQEEDLT GKDTSCLAEO LGGKKSKKKS EFLCANHVLK WSGKKGDTAA SRAKAAGGRS SSSKQRKELG GLEGDPSPEE DEGIQKASPL

THSP

**Appearance** 

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** 

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100  $\mu g/mL$  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

The CNPY3/PRAT4A protein acts as a Toll-like receptor (TLR)-specific co-chaperone for HSP90B1, playing a crucial role in the proper folding of TLRs, with the exception of TLR3. This function is essential for the controlled exit of TLRs from the endoplasmic reticulum, thereby influencing both innate and adaptive immune responses. CNPY3/PRAT4A interacts with HSP90B1, and this interaction is disrupted in the presence of ATP. Furthermore, it interacts with multiple TLRs, including TLR1, TLR2, TLR4, and TLR9, with the strongest interaction observed with TLR4. These interactions highlight the intricate

regulatory role of CNPY3/PRAT4A in TLR folding and function, shedding light on its importance in the orchestration of immune responses.

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

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