

CNPY3/PRAT4A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76274
Synonyms:	Protein canopy homolog 3; Protein associated with Tlr4; PRAT4A; TNRC5
Species:	Mouse
Source:	HEK293
Accession:	Q9DAU1 (M1-P272)
Gene ID:	72029
Molecular Weight:	Approximately 28.6 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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	CNPY3/PRAT4A Protein functions as a Toll-like receptor (TLR)-specific co-chaperone for HSP90B1, playing a vital role in the proper folding of TLRs, with the exception of TLR3, and thereby controlling their exit from the endoplasmic reticulum. This protein's involvement is critical for both innate and adaptive immune responses. CNPY3/PRAT4A interacts with HSP90B1, and this interaction is disrupted in the presence of ATP. Furthermore, it engages with various TLRs, including TLR1, TLR2, TLR4, and TLR9, with the strongest interaction observed with TLR4. The intricate interplay between CNPY3/PRAT4A and TLRs underscores its significance in regulating immune responses and highlights its role as a co-chaperone in the cellular mechanisms that govern the proper folding and trafficking of TLRs.
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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