

## CNPY2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76839
Synonyms:	Protein canopy homolog 2; MSAP; TMEM4; ZSIG9
Species:	Human
Source:	HEK293
Accession:	Q9Y2B0-1 (R21-S178)
Gene ID:	10330
Molecular Weight:	Approximately 19 kDa

### PROPERTIES

AA Sequence	R R S Q D L H C G A      C R A L V D E L E W      E I A Q V D P K K T      I Q M G S F R I N P D G S Q S V V E V P      Y A R S E A H L T E      L L E E I C D R M K      E Y G E Q I D P S T H R K N Y V R V V G      R N G E S S E L D L      Q G I R I D S D I S      G T L K F A C E S I V E E Y E D E L I E      F F S R E A D N V K      D K L C S K R T D L      C D H A L H I S
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm 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/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	CNPY2, a positive regulator of neurite outgrowth, exerts its function by stabilizing the myosin regulatory light chain (MRLC). It plays a crucial role in preventing MIR-mediated ubiquitination of MRLC, thereby averting its subsequent proteasomal degradation. The interaction between CNPY2 and MYLIP/MIR underscores its regulatory influence on MRLC stability, emphasizing its significance in facilitating neurite outgrowth.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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