CRIPT Protein, Human (His)

Cat. No.:	HY-P75331
Synonyms:	Cysteine-rich PDZ-binding protein; CRIPT; HSPC139
Species:	Human
Source:	E. coli
Accession:	Q9P021 (M1-V101)
Gene ID:	9419
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	M V C E K C E K K L G T V I T P D T W K D G A R N T T E S G G R K L N E N K A L T S K K A R F D P Y G K N K F S T C R I C K S S V H Q P G S H Y C Q G C A Y K K G I C A M C G K K V L D T K N Y K Q T S V
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, 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 μg/mL in ddH_2O.
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	CRIPT, a crucial participant in the minor spliceosome, plays a significant role in the splicing of U12-type introns in pre-mRNAs, contributing to the intricate process of RNA splicing. Beyond its role in splicing, CRIPT is involved in the cytoskeletal anchoring of DLG4 within excitatory synapses. As a component of the minor spliceosome complex, CRIPT engages in interactions with key partners such as RNF113A, SF3B1/SF3b155, SF3B2/SF3b145, and PHF5A/SF3b14b. It also exhibits a strong interaction with the PDZ3 domain of DLG4 family members, emphasizing its role in synaptic function. Additionally, CRIPT associates with microtubules, indicating its involvement in cytoskeletal dynamics. The intricate interplay of CRIPT with various molecular partners underscores its multifaceted contributions to splicing and synaptic organization.

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

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