

## PTK7 Protein, Human (HEK293, His)

Cat. No.:	HY-P78398
Synonyms:	CCK-4; PTK7
Species:	Human
Source:	HEK293
Accession:	Q13308 (A31-T704)
Gene ID:	5754
Molecular Weight:	80-115 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/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	The PTK7 protein, an inactive tyrosine kinase, plays a significant role in the Wnt signaling pathway, being a component of both the non-canonical (Wnt/planar cell polarity signaling) and canonical Wnt signaling pathways. Its involvement spans diverse cellular processes, including cell adhesion, migration, polarity, proliferation, actin cytoskeleton reorganization, and apoptosis. PTK7 also contributes to critical developmental events, such as embryogenesis, epithelial tissue organization, and angiogenesis. Notably, it interacts with CTNNB1, underlining its participation in Wnt pathway regulation and its impact on cellular functions with broader implications in both normal and pathological contexts.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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