

PDZD11 Protein, Human (His)

Cat. No.:	HY-P77130
Synonyms:	PDZ domain-containing protein 11; PMCA-interacting single-PDZ protein; AIPP1; PDZK11; PISP
Species:	Human
Source:	E. coli
Accession:	Q5EBL8 (D2-H140)
Gene ID:	51248
Molecular Weight:	Approximately 18 kDa

PROPERTIES

AA Sequence	<p> D S R I P Y D D Y P V V F L P A Y E N P P A W I P P H E R V H H P D Y N N E L T Q F L P R T I T L K K P P G A Q L G F N I R G G K A S Q L G I F I S K V I P D S D A H R A G L Q E G D Q V L A V N D V D F Q D I E H S K A V E I L K T A R E I S M R V R F F P Y N Y H R Q K E R T V H </p>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	<p>PDZD11 Protein serves as a pivotal mediator in cellular interactions, facilitating the docking of ADAM10 to the zonula adherens through its interaction with PLEKHA7. This interaction is essential for the subsequent binding of PLEKHA7 to the ADAM10-binding protein TSPAN33, highlighting PDZD11's role in coordinating intricate protein-protein interactions at cellular junctions. Moreover, PDZD11 exhibits interactions with ATP2B1, ATP2B2, ATP2B3, ATP2B4, and ATP7A, implicating its involvement in calcium and copper transport processes. Its interaction with PLEKHA7 at the zonula adherens underscores its significance in the regulation of cell adhesion and signaling. Additionally, PDZD11 interacts with SLC5A6, indicating potential involvement in the modulation of sodium-dependent transport processes. The complex network of interactions suggests that PDZD11 plays a crucial role in orchestrating diverse cellular functions, warranting further</p>
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investigation to unravel the precise molecular mechanisms and broader implications of PDZD11 in cellular signaling and junctional dynamics.

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

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