ILKAP/PP2C delta Protein, Human (HEK293, His)

Cat. No.:	HY-P76438
Synonyms:	Integrin-linked kinase-associated serine/threonine phosphatase 2C; ILKAP; PP2C delta
Species:	Human
Source:	HEK293
Accession:	Q9H0C8 (M1-H392)
Gene ID:	80895
Molecular Weight:	Approximately 46 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
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.
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	ILKAP/PP2C delta protein emerges as a key phosphatase with potential implications in the regulation of cell cycle progression by dephosphorylating substrates crucial for cell proliferation. This protein selectively associates with integrin-linked kinase (ILK), exerting modulatory effects on cell adhesion and growth factor signaling. ILKAP/PP2C delta specifically inhibits the ILK-GSK3B signaling axis, suggesting a role in restraining the pathway's activity. Such inhibition may play a critical role in impeding oncogenic transformation, emphasizing ILKAP/PP2C delta's significance as a potential tumor suppressor. The intricate interplay between ILKAP/PP2C delta, ILK, and downstream signaling pathways underscores its regulatory role in fundamental cellular processes, with implications for both cell cycle dynamics and oncogenic transformation control.

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

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