PITPNA Protein, Human (His)

Cat. No.:	HY-P71207
Synonyms:	Phosphatidylinositol Transfer Protein Alpha Isoform; PI-TP-Alpha; PtdIns Transfer Protein Alpha; PtdInsTP Alpha; PITPNA; PITPN
Species:	Human
Source:	E. coli
Accession:	Q00169 (M1-D270)
Gene ID:	5306
Molecular Weight:	16&22&38 kDa

PROPERTIES

AA Sequence	M V L L K E Y R V I L P V S V D E Y Q V G Q L Y S V A E A S K N E T G G G E G V E V L V N E P Y E K D G E K G Q Y T H K I Y H L Q S K V P T F V R M L A P E G A L N I H E K A W N A Y P Y C R T V I T N E Y M K E D F L I K I E T W H K P D L G T Q E N V H K L E P E A W K H V E A V Y I D I A D R S Q V L S K D Y K A E E D P A K F K S I K T G R G P L G P N W K Q E L V N Q K D C P Y M C A Y K L V T V K F K W W G L Q N K V E N F I H K Q E R R L F T N F H R Q L F C W L D K W V D L T M D D I R R M E E E T K R Q L D E M R Q K D P V K G M T A D D
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 1 mM EDTA, 1 mM DTT, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PITPNA protein functions as a catalyst in the transfer of phosphatidylinositol (PI) and phosphatidylcholine (PC) between cellular membranes. This enzyme exhibits a notable preference for PI and PC molecules that possess shorter saturated or monosaturated acyl chains at the sn-1 and sn-2 positions. The preference order for PC substrates is C16:1 > C16:0 > C18:1 > C18:0 > C20:4, while for PI substrates, it is C16:1 > C16:0 > C18:1 > C18:0 > C20:4 > C20:3. The dynamic lipid transfer mediated by PITPNA contributes to the regulation of lipid composition in cellular membranes, influencing various cellular processes and maintaining membrane homeostasis.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA