

TRPC5 Protein, Human (HEK293, His, MBP, FLAG)

Cat. No.:	HY-P701832
Synonyms:	TRPC5; Short transient receptor potential channel 5; TrpC5; Transient receptor protein 5; TRP-5; hTRP-5; hTRP5
Species:	Human
Source:	HEK293
Accession:	Q9UL62 (A2-L973)
Gene ID:	7224
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 20 mM HEPES, pH7.5, 150 mM NaCl, 0.005% GDN, 0.0005% CHS.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
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	TRPC5 protein is postulated to function as a receptor-activated non-selective calcium-permeant cation channel, potentially operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Although it has been suggested to exhibit calcium-selective properties, TRPC5 may also be activated by the depletion of intracellular calcium stores. The protein is implicated in mediating calcium-dependent phosphatidylserine externalization and apoptosis in neurons through its association with PLSCR1. Notably, the calcium channel activity of TRPC5 is enhanced by MYLK, which promotes its subcellular localization at the plasma membrane. This intricate regulatory network underscores the diverse ways in which TRPC5 may contribute to cellular signaling processes, with implications for calcium homeostasis and apoptotic pathways in neurons.
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Caution: Product has not been fully validated for medical applications. For research use only.

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