

ADCYAP1R1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77120
Synonyms:	Pituitary adenylate cyclase-activating polypeptide type I receptor; PACAP-R1; ADCYAP1R1
Species:	Human
Source:	HEK293
Accession:	P41586 (M1-A155)
Gene ID:	117
Molecular Weight:	Approximately 65 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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	The ADCYAP1R1 protein functions as a receptor for pituitary adenylate cyclase-activating polypeptide (PACAP), specifically recognizing both PACAP-27 and PACAP-38. Operating through G proteins, this receptor activates adenylyl cyclase, initiating downstream signaling pathways. It is implicated in the regulation of various hormonal releases, including adrenocorticotropin, luteinizing hormone, growth hormone, prolactin, epinephrine, and catecholamine. Additionally, ADCYAP1R1 may play a role in spermatogenesis and sperm motility, contributing to smooth muscle relaxation and secretion in the gastrointestinal tract. Its interaction with PACAP is facilitated through the N-terminal extracellular domain, highlighting its crucial involvement in diverse physiological processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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