

PDE3A Protein, Human (sf9, His-GST)

Cat. No.:	HY-P75961
Synonyms:	cGMP-inhibited 3',5'-cyclic phosphodiesterase A; CGI-PDE A; PDE3A
Species:	Human
Source:	Sf9 insect cells
Accession:	Q14432 (K669-Q1141)
Gene ID:	5139
Molecular Weight:	Approximately 93 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly, 3 mM DTT.
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

PDE3A protein, a cyclic nucleotide phosphodiesterase, exhibits specificity for the second messengers cAMP and cGMP, crucial regulators in diverse physiological processes. Additionally, PDE3A demonstrates activity toward cUMP. Beyond its catalytic role, PDE3A is a component of an E2/17beta-estradiol-induced pro-apoptotic signaling pathway. Estradiol (E2) stabilizes the PDE3A/SLFN12 complex in the cytosol, leading to the dephosphorylation of SLFN12 and activation of its pro-apoptotic ribonuclease activity. This apoptotic pathway is implicated in tissues with high concentrations of E2 and may play a role in processes such as placenta remodeling.

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

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