

## PDE4D Protein, Human (His)

Cat. No.:	HY-P701961
Synonyms:	PDE4D; cAMP-specific 3'; 5'-cyclic phosphodiesterase 4D; DPDE3; PDE43
Species:	Human
Source:	E. coli
Accession:	Q08499 (T388-S715)
Gene ID:	5144
Molecular Weight:	Approximately 40 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM HEPES, pH 7.5, 200 mM NaCl, 20% glycerol, 1mM DTT.
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	PDE4D (Phosphodiesterase 4D) protein functions as a hydrolytic enzyme responsible for the degradation of the second messenger cAMP. This molecule, cyclic adenosine monophosphate (cAMP), serves as a crucial regulator in numerous essential physiological processes. PDE4D's enzymatic activity in breaking down cAMP underscores its pivotal role in modulating cellular signaling cascades and maintaining the intricate balance of intracellular communication mediated by this critical second messenger.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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