

Recombinant Human PDE4C

Cat. No. PDE4C-30820TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDE4C protein with N-terminal proprietary tag, expressed in a Baculovirus infected Sf9 cell expression system, 106 kDa.
Species	Human
Description	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Biological activity	Specific Activity: 17230 pmol/min/μg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Full Length	Full L.

GENE INFORMATION

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Gene Name	PDE4C phosphodiesterase 4C, cAMP-specific [Homo sapiens]
Official Symbol	PDE4C
Synonyms	PDE4C; phosphodiesterase 4C, cAMP-specific; DPDE1, phosphodiesterase 4C, cAMP specific (dunce (Drosophila) homolog phosphodiesterase E1); cAMP-specific 3,5-cyclic phosphodiesterase 4C; phosphodiesterase E1 dunce homolog (Drosophila);
Gene ID	5143
mRNA Refseq	NM_000923
Protein Refseq	NP_000914
MIM	600128
Uniprot ID	Q08493
Chromosome Location	19p13.11
Pathway	DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Opioid Signalling, organism-specific biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; drug binding; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;