Recombinant Human PDE4D

Cat. No. PDE4D-28756TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDE4D2 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, 103 kDa.
Species	Human
Description	This gene encodes one of four mammalian counterparts to the fruit fly dunce gene. The encoded protein has 3,5-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.
Biological activity	Specific Activity: 36365 pmol/min/μg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 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

Gene Name	PDE4D phosphodiesterase 4D, cAMP-specific [Homo sapiens]

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Official Symbol	PDE4D
Synonyms	PDE4D; phosphodiesterase 4D, cAMP-specific; DPDE3, phosphodiesterase 4D, cAMP specific (dunce (Drosophila) homolog phosphodiesterase E3); cAMP-specific 3,5-cyclic phosphodiesterase 4D; phosphodiesterase E3 dunce homolog (Drosophila);
Gene ID	5144
mRNA Refseq	NM_001104631
Protein Refseq	NP_001098101
MIM	600129
Uniprot ID	Q08499
Chromosome Location	5q12
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; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; cAMP binding; drug binding; hydrolase activity;

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