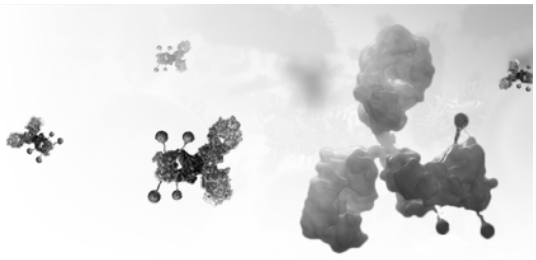

Human PDE4D peptide (DAG-P0999)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.[provided by RefSeq, Sep 2009]
Specificity	Widespread; most abundant in skeletal muscle. Isoform 6 is detected in brain. Isoform 8 is detected in brain, placenta, lung and kidney. Isoform 7 is detected in heart and skeletal muscle.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE4 subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PDE4D phosphodiesterase 4D, cAMP-specific [Homo sapiens (human)]
Official Symbol	PDE4D
Synonyms	PDE4D; phosphodiesterase 4D, cAMP-specific; DPDE3; PDE43; STRK1; ACRDYS2; HSPDE4D; PDE4DN2; cAMP-specific 3,5-cyclic phosphodiesterase 4D; cAMP-specific phosphodiesterase PDE4D6; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3

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	dunce homolog, Drosophila);
Entrez Gene ID	5144
mRNA Refseq	NM_001104631.1
Protein Refseq	NP_001098101.1
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; Morphine addiction, organism-specific biosystem; Morphine addiction, conserved biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Opioid Signalling, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolis
Function	3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; ATPase binding; beta-2 adrenergic receptor binding; cAMP binding; drug binding; enzyme binding; ion channel binding; io

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