

Recombinant Human PDE2A

Cat. No. PDE2A-29979TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PDE2A (amino acids 850-940) with a N terminal proprietary tag; Predicted MWt 35.64 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	91 amino acids
Description	cGMP-dependent 3,5-cyclic phosphodiesterase is an enzyme that in humans is encoded by the PDE2A gene.
Molecular Weight	35.640kDa inclusive of tags
Tissue specificity	Expressed in brain and to a lesser extent in heart, placenta, lung, skeletal muscle, kidney and pancreas.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris buffered saline, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	REKAYIPELQISFMEHIAMPIYKLLQDLFPKAAELYERVASNREHWTKVSHKFTIRGLP SNNSLDFLDEEYEVPLDGDGTRAPINGCCSLDA
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE2 subfamily. Contains 2 GAF domains.

GENE INFORMATION

Gene Name	PDE2A phosphodiesterase 2A, cGMP-stimulated [Homo sapiens]
Official Symbol	PDE2A
Synonyms	PDE2A; phosphodiesterase 2A, cGMP-stimulated; cGMP-dependent 3,5-cyclic phosphodiesterase;
Gene ID	5138
mRNA Refseq	NM_001143839
Protein Refseq	NP_001137311
MIM	602658
Uniprot ID	O00408
Chromosome Location	11q13.1-q14.1
Pathway	G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem; Nitric oxide stimulates guanylate cyclase, organism-specific biosystem; Platelet

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homeostasis, organism-specific biosystem;

Function

3,5-cyclic-nucleotide phosphodiesterase activity; TPR domain binding; cAMP binding;
cGMP binding; cGMP binding;

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