Recombinant Human PDE3A

Cat. No. PDE3A-29931TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PDE3A with N-terminal proprietary tag.Mol Wt 37.51 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	108 amino acids
Description	This gene encodes a member of the cGMP-inhibited cyclic nucleotide phosphodiesterase (cGI-PDE) family. cGI-PDE enzymes hydrolyze both cAMP and cGMP, and play critical roles in many cellular processes by regulating the amplitude and duration of intracellular cyclic nucleotide signals. The encoded protein mediates platelet aggregation and also plays important roles in cardiovascular function by regulating vascular smooth muscle contraction and relaxation. Inhibitors of the encoded protein may be effective in treating congestive heart failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Weight	37.510kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris buffered saline
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TPASSLVSKISAVQFPESADTTAKQSLGSHRALTYTQSAP DLSPQILTPPVICSSCGR PYSQGNPADEPLERSGVATRTP SRTDDTAQVTSDYETNNNSDSSDIVQNE
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE3 subfamily.

GENE INFORMATION

Gene Name	PDE3A phosphodiesterase 3A, cGMP-inhibited [Homo sapiens]
Official Symbol	PDE3A
Synonyms	PDE3A; phosphodiesterase 3A, cGMP-inhibited; cGMP-inhibited 3,5-cyclic phosphodiesterase A; CGI PDE;
Gene ID	5139
mRNA Refseq	NM_000921
Protein Refseq	NP_000912
MIM	123805
Uniprot ID	Q14432
Chromosome Location	12p12.2

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Pathway	G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; cAMP binding; cGMP-inhibited cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding;

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