Recombinant Human PDE8A

Cat. No. PDE8A-30226TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 32-121 of Human PDE8A, with an N-terminal proprietary tag, predicted MWt 35.53 kDa
Species	Human
Source	Wheat Germ
ProteinLength	90 amino acids
Description	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE8 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 found for this gene.
Molecular Weight	35.530kDa inclusive of tags
Tissue specificity	Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RLPQGQKTAALPRTRGAGLLESELRDGSGKKVAVADVQFGPMRFHQDQLQVLLVF TKEDNQCNGFCRACEKAGFKCTVTKEAQAVLACFL
Sequence Similarities	Belongs to the cyclic nucleotide phosphodiesterase family. PDE8 subfamily.Contains 1 PAC (PAS-associated C-terminal) domain.Contains 1 PAS (PER-ARNT-SIM) domain.

GENE INFORMATION

Gene Name	PDE8A phosphodiesterase 8A [Homo sapiens]
Official Symbol	PDE8A
Synonyms	PDE8A; phosphodiesterase 8A; high affinity cAMP-specific and IBMX-insensitive 3,5-cyclic phosphodiesterase 8A; HsT19550;
Gene ID	5151
mRNA Refseq	NM_001243137
Protein Refseq	NP_001230066
MIM	602972
Uniprot ID	O60658

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Chromosome Location	15q25.3
Pathway	G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	3,5-cyclic-AMP phosphodiesterase activity; 3,5-cyclic-nucleotide phosphodiesterase activity; hydrolase activity; metal ion binding; phosphoric diester hydrolase activity;

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