

## Recombinant Human PDE8A

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 32-121 of Human PDE8A, with an N-terminal proprietary tag, predicted MWt 35.53 kDa
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	90 amino acids
<b>Description</b>	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.
<b>Molecular Weight</b>	35.530kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	RLPQGQKTAALPRTRGAGLLESELRDGSGKKVAVADVQFGPMRFHQDQLQVLLVF TKEDNQCNGFCRACEKAGFKCTVTKEAQAVLACFL
<b>Sequence Similarities</b>	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

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

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<b>Chromosome Location</b>	15q25.3
<b>Pathway</b>	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;
<b>Function</b>	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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