

# Recombinant Human Phosphodiesterase 8A, GST-tagged, Active

**Cat. No.** PDE8A-482H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full-length human PDE8A was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 120 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PDE8A is a member of the phosphodiesterase family of proteins that play a critical role in regulating intracellular levels of cAMP and cGMP. PDE8A is a high-affinity cAMP-specific PDE expressed in a variety of tissues such as ovary and testis. PDE8A plays an important role in many biological processes, including T-cell activation, testosterone production, adrenocortical hyperplasia, and thyroid function. Targeted mutation in the PDE8A gene in Leydig cells show sensitivity in the action of LH in terms of testosterone production. PDE8A, through its PAS domain, can bind with IkappaB proteins in a region containing their ankyrin repeats. The association of PDE8A with IkappaB greatly enhanced the enzyme activity this enzyme.
<b>Sequence</b>	Full length.
<b>Applications</b>	PDE Assay.
<b>Storage And Stability</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	PDE8A phosphodiesterase 8A [ Homo sapiens ]
<b>Synonyms</b>	PDE8A; phosphodiesterase 8A; FLJ16150; HsT19550; OTTHUMP00000192898; cAMP-specific cyclic nucleotide phosphodiesterase 8A; high-affinity cAMP-specific and IBMX-insensitive 3",5"-cyclic phosphodiesterase 8A; EC 3.1.4.17
<b>Gene ID</b>	5151
<b>mRNA Refseq</b>	NM_002605
<b>Protein Refseq</b>	NP_002596
<b>MIM</b>	602972
<b>UniProt ID</b>	O60658
<b>Chromosome Location</b>	15q25.3
<b>Pathway</b>	Progesterone-mediated oocyte maturation; Purine metabolism
<b>Function</b>	3",5"-cyclic-AMP phosphodiesterase activity; hydrolase activity; manganese ion binding; magnesium ion binding; two-component response regulator activity

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