Recombinant Human Phosphodiesterase 8A, GST-tagged, Active

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

SPECIFICATION

Product Overview	Recombinant Full-length human PDE8A was expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag. MW = 120 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full length.
Applications	PDE Assay.
Storage And Stability	Store product at -70℃. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	PDE8A phosphodiesterase 8A [Homo sapiens]
Synonyms	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
Gene ID	5151
mRNA Refseq	NM_002605
Protein Refseq	NP_002596
MIM	602972
UniProt ID	O60658
Chromosome Location	15q25.3
Pathway	Progesterone-mediated oocyte maturation; Purine metabolism
Function	3",5"-cyclic-AMP phosphodiesterase activity; hydrolase activity; manganese ion binding; magnesium ion binding; two-component response regulator activity

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