

Recombinant Human PDE4D, GST-tagged, Active

Cat. No. PDE4D-478H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PDE4D (225-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 82 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	225-end a.a.
Description	PDE4D is a member of the phosphodiesterase (PDE) family that is cAMP-specific and has homology to the "dunce" gene of Drosophila. PDE4D is expressed in both cytosolic and particulate fractions in the cell and Rolipram, a specific PDE4 inhibitor, inhibits and significantly lowers the IC50 for the cytosolic forms of the enzyme. TNF α upregulates the basal expression of PDE4D in HUVEC. PDE4D, which is not detected in untreated cells, accumulates beginning 4 hours after TNF α treatment and increased by 24 hours. Mice deficient in PDE4D exhibit delayed growth as well as reduced viability and female fertility.
Sequence	225-end.
Applications	PDE Assay.
Storage And Stability	Store product at -70°C. 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	PDE4D phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila) [Homo sapiens]
Synonyms	PDE4D; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila); DPDE3; STRK1; HSPDE4D; PDE4DN2; FLJ97311; DKFZp686M11213; phosphodiesterase 4D; dunce-like phosphodiesterase E3; cAMP-specific phosphodiesterase 4D; cAMP-specific phosphodiesterase PDE4D6; EC 3.1.4.17; phosphodiesterase 4D, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E3); cAMP-specific 3",5"-cyclic phosphodiesterase 4D; PDE43; phosphodiesterase 4D, cAMP-specific (dunce; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila)
Gene ID	5144
mRNA Refseq	NM_001104631
Protein Refseq	NP_001098101
MIM	600129
UniProt ID	Q08499
Chromosome Location	5q12
Pathway	Progesterone-mediated oocyte maturation; Purine metabolism

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Function	3",5"-cyclic-AMP phosphodiesterase activity; hydrolase activity; metal ion binding
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