

Active Recombinant Dog PDE4D Protein (2-679), N-GST tagged

Cat. No. PDE4D-11D Lot. No. (See product label)

SPECIFICATION

Product Overview	Dog phosphodiesterase 4D (PDE4D) GenBank Accession No. XP_003433853, a.a. 2-679 (end), with N-terminal GST-tag, expressed in Sf9 insect cells via a baculovirus expression system.
Species	Dog
Source	Sf9 Cells
ProteinLength	2-679
Description	Enables beta-2 adrenergic receptor binding activity; cyclic-nucleotide phosphodiesterase activity; and enzyme binding activity. Involved in several processes, including positive regulation of smooth muscle cell migration; positive regulation of smooth muscle cell proliferation; and regulation of signal transduction. Located in several cellular components, including Golgi apparatus; centrosome; and myofibril. Part of protein-containing complex. Used to study mental depression. Biomarker of transient cerebral ischemia. Human ortholog(s) of this gene implicated in acrodysostosis. Orthologous to human PDE4D (phosphodiesterase 4D).
Form	Aqueous buffer solution
Bio-activity	≥ 5665 pmol/min/μg
Molecular Mass	104 kDa

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Unit Definition	One unit is defined as the amount of enzyme that will convert 1 pmole of 3, 5-cAMP to 5-AMP per minute at 37 centigrade.
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Usage	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage Buffer	40 mM Tris pH 8, 110 mM NaCl, 2.2 mM KCl, 20 % glycerol, 3 mM DTT
Shipping	At -80 centigrade
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	PDE4D phosphodiesterase 4D [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	PDE4D
Synonyms	Pde4d; phosphodiesterase 4D; DPDE3; PDE3/IVd; cAMP-specific 3',5'-cyclic phosphodiesterase 4D; 3',5'-cyclic AMP phosphodiesterase; cAMP-specific phosphodiesterase PDE4D; phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, <i>Drosophila</i>); EC 3.1.4.53
Gene ID	487221
mRNA Refseq	XM_003433805
Protein Refseq	XP_003433853

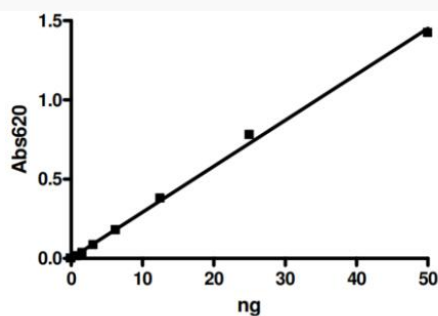
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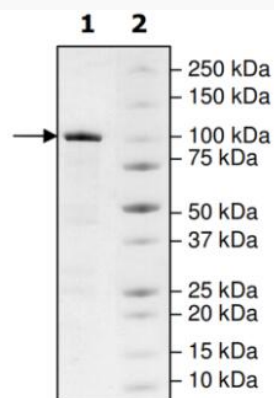
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UniProt ID F1PKQ9

Activity



SDS-PAGE



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