# abcam

### Product datasheet

# Recombinant dog PDE4D protein ab198425

# 2 Images

# **Description**

Product name Recombinant dog PDE4D protein

Biological activity Specific Activity: ≥ 5665 pmol/min/µg

Unit Definition: One unit is defined as the amount of ab198425 that will convert 1 pmole of 3, 5-

cAMP to 5-AMP per minute at 37°C.

Assay Conditions: 10 mM Tris-HCl, pH 7.4, 10 mM  $MgCl_2$ , 0.1 mg/ml BSA, 0.05% Tween-20, 200 $\mu$ M cAMP, 2.5 kU 5'-nucleotidase, and serial dilutions of ab198425 at 37°C for 20 min. Quantified by 5'- nucleotidase cleaving the 5'-AMP product and releasing the phosphate group

which is detected by Malachite Green Reagent.

**Purity** > 90 % SDS-PAGE.

Affinity purified.

**Expression system** Baculovirus infected Sf9 cells

Accession XP\_003433853

Protein length Full length protein

Animal free No

**Nature** Recombinant

**Species** Dog

Sequence MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDK

WRNKKFELGL

EFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEI

**SMLEGAVL** 

DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFKDRLCHKT

YLNGDHVTH

PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQIDK

YLKSSKYIA

WPLQGWQATFGGGDHLVPRGSGSGIQSIIMKPRSRSTSS

LRTTEAACFDV

DNGTSAGRSPLDPMTSPGSGLILQANFVHSQRRESFLYR

**SDSDYDLSPKS** 

 ${\tt MSRNSS} {\tt IASDIHGDDLIVTPFAQVLASLRTVRNNFAALTNL}$ 

**QDRAPSKRS** 

PMCNQPSINKATITEEAYQKLASETLEELDWCLDQLETLQT

RHSVSEMAS

NKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQHEVE

**IPSPTQKEKE** 

 ${\sf KKKRPMSQISGVKKLMHSSSLTNSSIPRFGVKTEQEDVLA}$ 

KELEDVNKWG

LHVFRIAELSGNRPLTVIMHTIFQERDLLKTFKIPVDTLITYLM

**TLEDHY** 

HADVAYHNNIHAADVVQSTHVLLSTPALEAVFTDLEILAAIF

**ASAIHDVD** 

**HPGVSNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQE** 

**ENCDIFQNLT** 

KKQRQSLRKMVIDIVLATDMSKHMNLLADLKTMVETKKVT

SSGVLLLDNY

SDRIQVLQNMVHCADLSNPTKPLQLYRQWTDRIMEEFFRQ

**GDRERERGME** 

ISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQ

DILDTLEDNR

EWYQSTIPQSPSPAPDEQEEGRQGQTEKFQFELTLEEDG

**ESDTEKDSGSQ** 

**VEEDTSCSDSKTLCTQDSESTEIPLDEQVEEETVGEEEN** 

**SQPEACVIEDH SPDT** 

Predicted molecular weight 104 kDa including tags

Amino acids 2 to 679

Tags GST tag N-Terminus

**Description** Recombinant dog PDE4B protein

#### **Specifications**

Our **Abpromise guarantee** covers the use of **ab198425** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Functional Studies** 

Form Liquid

#### **Preparation and Storage**

**Stability and Storage** Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 20% Glycerol (glycerin, glycerine), 0.63% Tris HCl, 0.64% Sodium chloride, 0.02%

Potassium chloride, 0.05% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### **General Info**

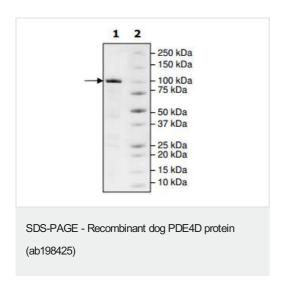
**Function** Hydrolyzes the second messenger cAMP, which is a key regulator of many important

physiological processes. May be involved in mediating central nervous system effects of

therapeutic agents ranging from antidepressants to antiasthmatic and anti-inflammatory agents.

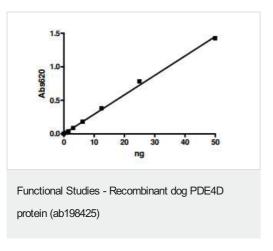
**Tissue specificity** Expressed in brain, heart, lung and skeletal muscle.

#### **Images**



4-20% SDS-PAGE analysis of ab198425 with Coomassie staining.

Lane 1: 2 µg ab198425 Lane 2: Protein Marker



Specific activity of ab198425.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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