



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### PDE4D (Human) Recombinant Protein (P01)

**Catalog Number:** H00005144-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human PDE4D full-length ORF ( AAH36319, 1 a.a. - 518 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MPEANYLLSVSWGVIKFKRMLNRELTHLSEMSRSGNQ  
VSEFISNTFLDKQHEVEIPSPTQKEKEKKRPMQISG  
VKKLMHSSSLTNSSIPRFGVKTEQEDVLAKELEDVVK  
WGLHVFRIAEELSGNRPLTVIMHTIFQERDLLKTFKIPVD  
TLITYLMTLEDHYHADVAYHNNIHAADVQSTHVLST  
PALEAVFTDLEILAAIFASAIHDVDHPGVFNQFLINTNSE  
LALMYNDSSVLENHHLAVGFKLLQEENCDFQNLTKKQ  
RQSLRKMVIDIVLATDMSKHMNLLADLKTVMETKVKVTS  
SGVLLLDNYSRIQVLQNMVHCADLSNPTKPLQLYRQ  
WTDRIEIEFFRQGDREERERGMEISPMCDKHNASVEK  
SQVGFIDYIVHPLWETWADLVHPDAQDILDTELDNRE  
WYQSTIPQSPAPDDPEEGRQGQTEKFQFELTLEED  
GESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPL  
DEQVEEEAVGEEEEESQPEACVIDDRSPDT

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 82.72

**Interspecies Antigen Sequence:** Rat (97)

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5144

**Gene Symbol:** PDE4D

**Gene Alias:** DPDE3, HSPDE4D, PDE4DN2, STRK1

**Gene Summary:** This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins]

**References:**

1. Epac Activates the Small G Proteins Rap1 and Rab3A to Achieve Exocytosis. Branham MT, Bustos MA, De Blas GA, Rehmann H, Zarelli VE, Trevino CL, Darszon A, Mayorga LS, Tomes CN. J Biol Chem. 2009 Sep 11;284(37):24825-39. Epub 2009 Jun 22.
2. Calcium-induced acrosomal exocytosis requires cAMP acting through a protein kinase A-independent, Epac-mediated pathway. Branham MT, Mayorga LS, Tomes CN. J Biol Chem. 2006 Mar 31;281(13):8656-66. Epub 2006 Jan 10.