

[Go to Product page](#)

Datasheet for ABIN7550688  
**PDE1B Protein (AA 1-536) (His tag)**

## Overview

Quantity:	1 mg
Target:	PDE1B
Protein Characteristics:	AA 1-536
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDE1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat PDE1B Protein expressed in mammalian cells.
Sequence:	MELSPRSPPE MLEESDCPSP LELKSAPSKK MWIKLRSLLR YMVKQLENGE INIEELKKNL EYTASLLEAV YIDETRQILD TEDELQELRS DAVPSEVRDW LASTFTQQR AKGRRAEKPK KFRSIVHAVQ AGIFVERMFR RTYTSVGPTY STAVLNCLKN LDLWCFDVS LNQAADDHAL RTIVFELLTR HNLISRFKIP TVFLMSFLDA LETGYGKYKN PYHNQIHAAD VTQTVHCFL RTGMVHCLSE IELLAIIFAA AIHDYEHTGT TNSFHIQTKS ECAIVYNDRS VLENHHISSV FRLMQDDEMNI FINLTKDEF VELRALVIEM VLATDMSCHF QQVKTMTAL QQLERIDKPK ALSLLLHAAD ISHPTKQWLV HSRWTKALME EFRQGDKEA ELGLPFSPLC DRTSTLVAQS QIGFIDFIVE PTFSVLTDVA EKSQPLADE DSKSKNQPSF QWRQPSLDVE VGDPNPDVVS FRSTWVKRIQ ENKQKWKERA ASGITNQMSI DELSPCEEEA PPSPAEDEHN QNGNLD <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you</b>

## Product Details

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**have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

PDE1B

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### Alternative Name:

PDE1B ([PDE1B Products](#))

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### Background:

Dual specificity calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B (Cam-PDE 1B) (EC 3.1.4.17) (63 kDa Cam-PDE),FUNCTION: Cyclic nucleotide phosphodiesterase with a dual specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:8855339, PubMed:9419816, PubMed:15260978). Has a preference for cGMP as a substrate (PubMed:9419816). {ECO:0000269|PubMed:15260978, ECO:0000269|PubMed:8855339, ECO:0000269|PubMed:9419816}.

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### Molecular Weight:

61.4 kDa

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### UniProt:

[Q01064](#)

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### Pathways:

[Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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