



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Data Sheet

### PDE1B

Human, recombinant, N-terminal GST tag

**Catalog #:** 60011

**Lot #:** 140716-1      **Conc.:** 0.26 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2mM KCl, 0.04% Tween 20, 3mM glycerol

**Stability:** >6 months at  $-80^{\circ}\text{C}$ . *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

**References:**

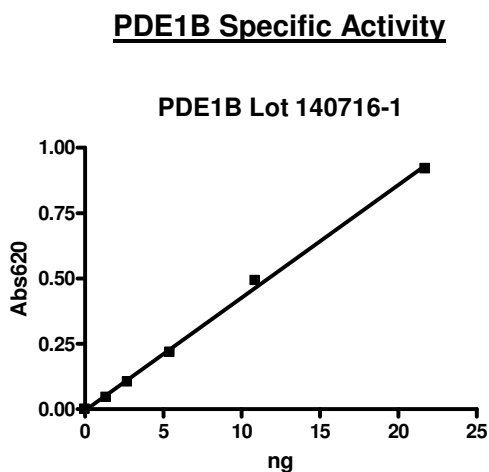
1. Bender A.T. and Beavo J.A. *Proc. Natl. Acad. Sci. U.S.A.* **103(2)**, 460-465 (2006).
2. Bender A.T. *et al.*, *Proc. Natl. Acad. Sci. U.S.A.* **102(2)**, 497-502 (2005).

**Description:** Human PDE1B (GenBank Accession No. NM\_000924), full length with N-terminal GST tag, MW= 87 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

**Specific Activity:** 7600 pmol/min/ $\mu\text{g}$ . One unit is defined as the amount of enzyme that will convert 1 pmole of 3', 5'-cAMP to 5'-AMP per min at  $37^{\circ}\text{C}$ . Assay condition: 10 mM Tris-HCl, pH 7.4, 10 mM  $\text{MgCl}_2$ , 0.1 mg/ml BSA, 0.05% Tween-20, 200  $\mu\text{M}$  cAMP, and serial dilutions of PDE1B at  $37^{\circ}\text{C}$  for 20 min. Quantified by 5' nucleotidase cleaving the 5'-AMP product and releasing the phosphate group which is detected by Malachite Green Reagent.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

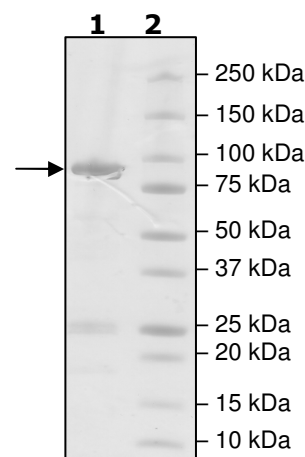
### Quality Assurance



**4-20% SDS-PAGE**  
**Coomassie staining**

**Lane 1:**  
 2  $\mu\text{g}$  PDE1B  
**Lane 2:**  
 Protein Marker

**MW:** 87 kDa  
**Purity:**  $\geq 70\%$



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