**Data Sheet**

**PDE1A1**

Human, recombinant, N-terminal GST tag  
**Catalog #:** 60010  
**Lot#:** 130411-G1  
**Conc.:** 0.15 mg/ml

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

**Stability:** >6 months at –80°C

**References:**

**Description:** Human PDE1A1 (GenBank Accession No. NM_005019), full length with N-terminal GST tag, MW= 88.3 kDa, expressed in a Baculovirus infected Sf9 cell expression system.  
**Specific Activity:** 43,900 pmol/min/µg  
Assay description: One unit is defined as the amount of enzyme that will convert 1 pmoles of 3’, 5’-cAMP to 5′-AMP per min at 37°C. Assay condition: 10 mM Tris-HCl, pH 7.4, 10 mM MgCl2, 0.1 mg/ml BSA, 0.05% Tween-20, 200 µM cAMP, and serial dilutions of PDE 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.  
**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

**Quality Assurance**

**Specific Activity**

![Graph showing Specific Activity vs ng Abs620](image)

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

<table>
<thead>
<tr>
<th>MW (kDa)</th>
<th>Lane 1: 1.95 µg PDE1A</th>
<th>Lane 2: Protein Marker</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kDa</td>
<td>100 kDa</td>
<td>75 kDa</td>
</tr>
<tr>
<td>75 kDa</td>
<td>50 kDa</td>
<td>37 kDa</td>
</tr>
<tr>
<td>25 kDa</td>
<td>20 kDa</td>
<td>15 kDa</td>
</tr>
</tbody>
</table>

**Purity:** ≥84%

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