**Data Sheet**

**PDE4A1A/PDE4A4**
Human, recombinant, N-terminal GST tag

**Catalog #:** 60040
**Lot#:** 120622-G  **Conc.:** 0.13 mg/ml

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

**Stability:** >6 months at –80°C

**References:**

**Application Reference(s):**

**Description:**
Human PDE4A1A, also known as PDE4A4 (GenBank Accession No. U97584), full length with N-terminal GST tag, MW= 100 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

**Specific Activity:** 11105 pmol/min/µg. 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°C. Assay condition: 10 mM Tris-HCl, pH 7.4, 10 mM MgCl₂, 0.05% Tween-20, 200 µM cAMP, and PDE4A1A 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**

**10% SDS-PAGE**
Coomassie staining

<table>
<thead>
<tr>
<th>Lane 1</th>
<th>Lane 2</th>
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</thead>
<tbody>
<tr>
<td>2.6 µg PDE4A1A</td>
<td>Protein Marker</td>
</tr>
<tr>
<td><em>MW:</em> 100 kDa</td>
<td>Biorad (#161-0373)</td>
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<tr>
<td><em>Purity:</em> ≥85%</td>
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