**PRODUCT INFORMATION**

**Content:**
- 10 mg CI-994

**Storage and stability:**
- CI-994 is provided as a solid and shipped at room temperature. Store at -20°C. Solid product is stable 2 years when properly stored.
- Upon resuspension in DMSO, prepare aliquots of CI-994 and store at -20°C. Avoid repeated freeze-thaw cycles. Resuspended product is stable for 6 months when properly stored.

**CHEMICAL PROPERTIES**

**Synonym:** Tacedinaline, PD-123654

**CAS number:** 112522-64-2

**Formula:** C15H15N3O2

**Molecular weight:** 269.3

**Solubility:** 66 mg/ml in DMSO

**Purity:** >99% (HPLC)

**Working concentration:** 1 - 10 μg/ml

**Structure:**

```
     O
   /   /
  N   N
 /     /
H3C N
     H
```

**DESCRIPTION**

CI-994 (N-acetyldinaline, Tacedinaline, PD-123654) is a histone deacetylase (HDAC) inhibitor of the benzamide class. CI-994 was demonstrated to inhibit HDAC-1 and HDAC-2 in a concentration-dependent fashion with no effect on the activity of the prototypical histone acetyltransferase GCN5. CI-994 has been investigated in combination with gemcitabine against solid tumors and shown to be effective against acute myeloid leukemia in vitro and in vivo.


**METHODS**

**Preparation of CI-994 stock solution (20 mg/ml)**

1. Add 500 μl DMSO to 10 mg CI-995.
2. Vortex until complete solubilization.
3. Prepare aliquots and store stock solution at -20°C.
4. Further dilutions can be prepared using aqueous buffers. We do not recommend storing the aqueous solution for more than one day.

**RELATED PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichostatin A (Histone deacetylase inhibitor)</td>
<td>met-tsa-1</td>
</tr>
<tr>
<td>Valproic acid (Histone deacetylase inhibitor)</td>
<td>inh-vpa</td>
</tr>
<tr>
<td>SAHA (Pan-Histone deacetylase inhibitor)</td>
<td>ttrl-saha</td>
</tr>
</tbody>
</table>

Other signal transduction inhibitors are available, for more information visit [www.invivogen.com/inhibitors](http://www.invivogen.com/inhibitors)