Purvalanol B

(R)-2-chloro-4-(2-(1-hydroxy-3-methylbutan-2-ylamino)-9-isopropyl-9H-purin-6-ylamino)benzoic acid

CAS Registry No.: 212844-54-7

Smiles String:
CC(C)[C@H](CO)Nc1nc(c2c(n1)n(cn2)C(C)C(=O)O)Cl

Molecular Weight: 432.9

Molecular Formula: C20H25ClN6O3

Lot Number: Refer to vial

1H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

Description:

Purvalanol B is a cyclin-dependent kinase inhibitor with IC50 values of 6, 6, 9, > 10,000, and 6 nM for cdc2/cyclin B, cdk2/cyclin A, cdk2/cyclin E, cdk4/cyclin D1 and cdk5-p35 respectively. Purvalanol B has also been shown to have anti-proliferative properties, mediated by p42/p44 MAPK.

Biological Activity
**Shipping and Storage Temperature**

**Shipping:**
Ambient

**Storage:**
2 years -20°C, Powder 1 month, -4°C in DMSO, More than one month -80°C in DMSO

**Solubility**

DMSO 112mg/mL, Ethanol 4mg/mL

**Preparing Stock Solutions**

<table>
<thead>
<tr>
<th>Stock Solution (1ml DMSO)</th>
<th>1mM</th>
<th>10mM</th>
<th>20mM</th>
<th>50mM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass(mg)</td>
<td>0.4329</td>
<td>4.3290</td>
<td>8.6580</td>
<td>21.6450</td>
</tr>
</tbody>
</table>
References


Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1-877-854-6273 or email orders@synkinase.com.