**BI-D1870**

2-(3,5-difluoro-4-hydroxyphenylamino)-8-isopentyl-5,7-dimethyl-7,8-dihydropteridin-6(5H)-one

**CAS Registry No.:** 501437-28-1

**Smiles String:**

CC1C(=O)N(c2cnc(nc2N1CCC(C)C)Nc3cc(c(c(c3)F)O)F)C

**Molecular Weight:** 391.42

**Molecular Formula:** C19H23F2N5O2

**Lot Number:** Refer to vial

**1H-NMR:** Available on request

**HPLC (Purity):** > 95.0% @ 254 nm

**ES-MS:** Available on request

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**Description:**

BI-D1870 is a small molecule, specific inhibitor of p90 RSK (ribosomal S6 kinase) isoforms RSK1, RSK2, RSK3 and RSK4, both in vitro and in vivo, with IC50s are 31 nM, 24 nM, 18 nM, 15 nM, respectively. It shows a 10- to 100-fold selectivity for RSK over MST2, GSK-3 β, MARK3, CK1 and Aurora B.

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**Biological Activity**
Shipping and Storage Temperature

Shipping:
Ambient

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

Solubility
DMSO 78mg/mL, Ethanol <1mg/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>0.3915</td>
<td>3.9150</td>
<td>7.8300</td>
<td>19.5750</td>
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</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.

Product Datasheet (Rev. 1.1)