Tofacitinib

3-{(3R,4R)-4-Methyl-3-[methyl-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-amino]-piperidin-1-yl}-3-oxo-propionitrile

CAS Registry No.: 477600-75-2

Smiles String:
C[CC@@H]1CCN(CC1[N@](C)c2c3cc[nH]c3ncn2)C(=O)CC#N

Molecular Weight: 312.37

Molecular Formula: C16H20N6O

Lot Number: Refer to vial

1H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

Description:

Tofacitinib is an inhibitor of JAK3 with an IC50 of 1 nM. It shows up to 100-fold less potency against JAK2 and JAK1.

Biological Activity

IC50 (nM) 1 10 100 1000 10000 100000

JAK3

JAK2

JAK1
**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 63mg/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>0.3123</td>
<td>3.1237</td>
<td>6.2474</td>
<td>15.6185</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.

Product Datasheet (Rev. 1.1)