R112

Cat. No.: HY-16420
CAS No.: 575474-82-7
Molecular Formula: C₁₆H₁₃FN₄O₂
Molecular Weight: 312.3
Target: Syk
Pathway: Protein Tyrosine Kinase/RTK
Storage:
- Powder: -20°C 3 years, 4°C 2 years
- In solvent: -80°C 6 months, -20°C 1 month

Solvent & Solubility

In Vitro: DMSO: ≥ 41 mg/mL (131.28 mM)

* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.2020 mL</td>
<td>16.0102 mL</td>
<td>32.0205 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6404 mL</td>
<td>3.2020 mL</td>
<td>6.4041 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3202 mL</td>
<td>1.6010 mL</td>
<td>3.2020 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
R112 is an ATP-competitive inhibitor of Syk kinase with a Ki of 96 nM. R112 inhibits Syk kinase activity with an IC50 of 226 nM. IC50 value: 226 nM [1] Target: Syk

In vivo: R112 blocks leukotriene C4 production and all proinflammatory cytokines tested. Its onset of action was immediate, and the inhibition was reversible. R112 is able to completely inhibit all three IgE-induced mast cell functions: degranulation, lipid mediator production, and cytokine production.

R112 potently, completely, and rapidly abrogated all mast cell activation cascades triggered by IgE receptor cross-linking.[1]

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.

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