SMS2-IN-2

Cat. No.: HY-112713
CAS No.: 2241838-28-6
Molecular Formula: C₁₉H₁₃ClFN₃O₂
Molecular Weight: 369.78
Target: Others
Pathway: Others
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
SMS2-IN-2 is a potent, highly selective and orally active sphingomyelin synthase 2 (SMS2) inhibitor, with IC₅₀ values of 100 nM for SMS2 and 56 μM for SMS1, respectively. Anti-chronic inflammatory activity[1].

IC₅₀ & Target
IC₅₀: 100 nM (SMS2), 56 μM (SMS1)[1]

In Vivo
SMS2-IN-2 (Compound 15w; 20, 50 mg/kg/day, p.o. for 6 weeks) reduces chronic inflammation in the db/db mice[1].

<table>
<thead>
<tr>
<th>Animal Model:</th>
<th>Type 2 diabetes mellitus (T2DM) db/db mouse model (four-to-five week)[1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage:</td>
<td>20, 50 mg/kg/day</td>
</tr>
<tr>
<td>Administration:</td>
<td>P.O. daily for 6 weeks</td>
</tr>
<tr>
<td>Result:</td>
<td>Significantly reduced IL-6 and insulin levels.</td>
</tr>
</tbody>
</table>

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA