Orexin 2 Receptor Agonist

Cat. No.: HY-19320
CAS No.: 1796565-52-0
Molecular Formula: C₃₂H₃₄N₄O₅S
Molecular Weight: 586.7
Target: Orexin Receptor (OX Receptor)
Pathway: GPCR/G Protein; Neuronal Signaling
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 : ≥ 32 mg/mL (54.54 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.7044 mL</td>
<td>8.5222 mL</td>
<td>17.0445 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3409 mL</td>
<td>1.7044 mL</td>
<td>3.4089 mL</td>
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<tr>
<td></td>
<td>10 mM</td>
<td>0.1704 mL</td>
<td>0.8522 mL</td>
<td>1.7044 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description Orexin 2 Receptor Agonist is a potent (EC50 on OX2R is 23 nM) and OX2R-selective (OX1R/OX2R EC50 ratio is 70) agonist. IC50 value: 23 nM (EC50) Target: Orexin 2 Receptor Orexin 2 Receptor Agonist shows not only potent activity but also high selectivity for OX2R over OX1R. In CHO cells overexpressing hOX1R and HEK-293 cells overexpressing hOX2R, compound 26 displaced [125I]orexin-A in a concentration dependent manner: 26 bound to hOX2R and hOX1R with Ki of 0.14 and 0.77 μM, respectively.[1]

REFERENCES
