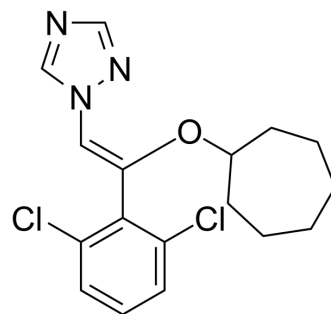


Ro 64-5229

Cat. No.:	HY-103557
CAS No.:	246852-46-0
Molecular Formula:	C ₁₇ H ₁₉ Cl ₂ N ₃ O
Molecular Weight:	352.26
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ro 64-5229 is a selective, non-competitive mGlu2 antagonist. RO 64-5229 reduces the presynaptic inhibitory effect of Neuroigin 1 ^[1] .								
IC₅₀ & Target	mGlu2 ^[1] .								
In Vitro	<p>RO 64-5229 (50 μM) reduces the presynaptic inhibitory effect of NL1 (Neuroigin 1)^[1].</p> <p>RO 64-5229 (0.1, 0.3, 1 μM; 20 min) inhibits the inhibitory activity of neuroigin 1 ectodomain (Ecto-NL1; mGluR2 activator) on Forskolin (Ecto-NL1 decreases the Forskolin-induced formation of cAMP) in HEK-mGluR2 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Immunofluorescence^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK-mGluR2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 0.3, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>20 min</td> </tr> <tr> <td>Result:</td> <td>Inhibited activity of Ecto-NL1(mGluR2 activator).</td> </tr> </table>	Cell Line:	HEK-mGluR2 cells	Concentration:	0.1, 0.3, 1 μM	Incubation Time:	20 min	Result:	Inhibited activity of Ecto-NL1(mGluR2 activator).
Cell Line:	HEK-mGluR2 cells								
Concentration:	0.1, 0.3, 1 μM								
Incubation Time:	20 min								
Result:	Inhibited activity of Ecto-NL1(mGluR2 activator).								

REFERENCES

[1]. Gjølund MD, et al. Soluble Ectodomain of Neuroigin 1 Decreases Synaptic Activity by Activating Metabotropic Glutamate Receptor 2. Front Mol Neurosci. 2017 May 3;10:116.

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

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