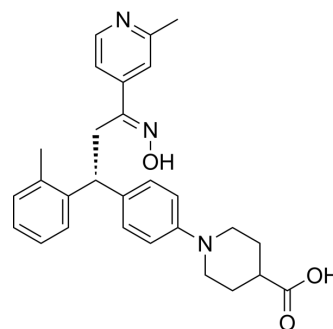


RO5527239

Cat. No.:	HY-116453
CAS No.:	1354812-99-9
Molecular Formula:	C ₂₈ H ₃₁ N ₃ O ₃
Molecular Weight:	457.56
Target:	G protein-coupled Bile Acid Receptor 1
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RO5527239 is an orally active TGR5 agonist, that induces a stimulatory response from intestinal L cells and specifically secretes the endogenous hormone GLP-2 ^[1] .								
In Vivo	<p>RO5527239 (30 mg/kg, p.o. for 10 days) stimulates the TGR5 receptor, upregulates L cells and L cells hormone GLP-2, triggers a GLP-2-dependent intestinal adaptation in C57BL/6N mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>GLP-2^{r/-} and GLP-2^{r+/+} C57Bl/6N mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>p.o. for 10 days</td> </tr> <tr> <td>Result:</td> <td>Increased GLP-1 and GLP-2 concentrations in the colon, gallbladder weight with both genotype. Increased villus height in the duodenum and decreased colon length in GLP-2^{r+/+} mice.</td> </tr> </table>	Animal Model:	GLP-2 ^{r/-} and GLP-2 ^{r+/+} C57Bl/6N mice ^[1]	Dosage:	30 mg/kg	Administration:	p.o. for 10 days	Result:	Increased GLP-1 and GLP-2 concentrations in the colon, gallbladder weight with both genotype. Increased villus height in the duodenum and decreased colon length in GLP-2 ^{r+/+} mice.
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REFERENCES

[1]. Hunt JE, et al., Pharmacological activation of TGR5 promotes intestinal growth via a GLP-2-dependent pathway in mice. *Am J Physiol Gastrointest Liver Physiol.* 2020 May 1;318(5):G980-G987.

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

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