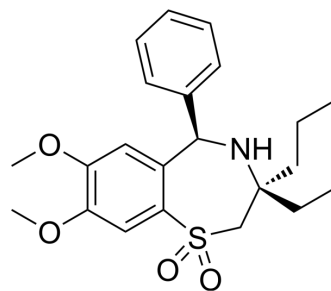


264W94

Cat. No.:	HY-19264
CAS No.:	178961-24-5
Molecular Formula:	C ₂₃ H ₃₁ NO ₄ S
Molecular Weight:	417.56
Target:	Apical Sodium-Dependent Bile Acid Transporter
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	264W94 is a potent ileal bile acid transporter (IBAT) inhibitor and a new cholesterol lowering agent. 264W94 has CYP7A1 induction, and antilipemic action ^[1] .								
IC₅₀ & Target	IBAT ^[1]								
In Vitro	264W94 (0, 0.1, 0.25, 0.5 μM) inhibits human IBAT-specific transport of 5 μM TC by 14% to 75% in a concentration-dependent manner with IC ₅₀ of 0.25 μM in CHO-hIBAT cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	<p>264W94 (orally; 0.03-1.0 mg/kg; twice a day for 3.5 days) dose-dependently attenuates diet-induced increases in serum LDL+VLDL-C, as well as the decrease in HDL-C^[1].</p> <p>264W94 (orally; 0.003, 0.01, 0.03, 0.1 mg/kg; twice a day for 2 days) increases fecal excretion of ⁷⁵SeHCAT in a dose-dependent manner^[1].</p> <p>264W94 (0.001, 0.01, 0.1, 1, and 10 mg/kg; twice a day for 2 weeks) reduces dose-dependently plasma glucose in male ZDF (ZDF/GmiCrl-fa/fa) rats. Treatment of 264W94 prevents the decline of insulin dose-dependently without an increase in proinsulin levels^[2].</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>Male Sprague Dawley rats (CD, Charles River, 270-310 gm)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.03, 0.1, 0.3, 1.0 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Orally; twice a day (9:00 am and 3:30 pm) for 3.5 days</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently attenuated diet-induced increases in serum LDL+VLDL-C, as well as the decrease in HDL-C.</td> </tr> </table>	Animal Model:	Male Sprague Dawley rats (CD, Charles River, 270-310 gm) ^[1]	Dosage:	0.03, 0.1, 0.3, 1.0 mg/kg	Administration:	Orally; twice a day (9:00 am and 3:30 pm) for 3.5 days	Result:	Dose-dependently attenuated diet-induced increases in serum LDL+VLDL-C, as well as the decrease in HDL-C.
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REFERENCES

[1]. Root C, et al. Ileal bile acid transporter inhibition, CYP7A1 induction, and antilipemic action of 264W94. J Lipid Res. 2002 Aug;43(8):1320-30.

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