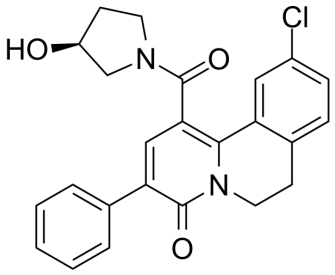
Ro 41-3290

Cat. No.:	HY-U00215
CAS No.:	143943-72-0
Molecular Formula:	$C_{24}H_{21}ClN_2O_3$
Molecular Weight:	420.89
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ro 41-3290 is the desethylated derivative of Ro 41-3696, which is a nonbenzodiazepine partial agonist at the benzodiazepine receptor.
IC_{50} & Target	Benzodiazepine receptor[1]
In Vivo	At all times plasma levels of Ro 41-3290, the desethylated derivative of Ro 41-3696, are higher than those of the parent drug (t_{max} and $t_{1/2}$ values=~2 and 8 hours, respectively)[1]. Pharmacokinetics of both Ro 41-3696 and its O-desethyl metabolite Ro 41-3290 are dose proportional and time independent. Ro 41-3696 is absorbed and eliminates rapidly (time of maximum plasma concentration, approximately 1 hour; elimination half-life, approximately 2 hours). Plasma levels of Ro 41-3290 are higher than those of the parent drug, and it is more slowly eliminated (values for time of maximum plasma concentration and elimination half-life, approximately 2 and approximately 7 hours, respectively)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dingemanse J, et al. Pharmacokinetics and pharmacodynamics of Ro 41-3696, a novel nonbenzodiazepine hypnotic. J Clin Pharmacol. 1995 Aug;35(8):821-9.

[2]. Dingemanse J, et al. Multiple-dose tolerability, pharmacodynamics, and pharmacokinetics of the quinolizinone hypnotic Ro 41-3696 in elderly subjects. Clin Neuropharmacol. 2001 Mar-Apr;24(2):82-90.

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