Product Data Sheet

Product Name: NNC45-0781
Cat. No.: GC31565

Chemical Properties

Cas. No.	207277-66-5		
SMILES	OC1=CC=C([C@@H](C2=CC=C(OCCN3CCCC3)C=C2)[C@@H](C4=CC=CC=C4)CO5)C5=C1		
Formula	$C_{27}H_{29}NO_3$	M.Wt	415.52
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	NNC45-0781		

Protocol

Animal experiment:	Rats[1]Female Sprague-Dawley rats, 12 weeks of age, weighing approximately 250 g are used in these studies.The pharmacological properties of NNC45-0781 (NNC 45-0781) are studied through a series of in vivo experiments. Activity of orally administered NNC45-0781 (1,10, 50 and 100 nmol/g) on total serum cholesterol in the ovariectomized rat.

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References:

[1]. Bury PS, et al. Synthesis and pharmacological evaluation of novel cis-3,4-diaryl-hydroxychromanes as high affinity partial agonists for the estrogen receptor. Bioorg Med Chem. 2002 Jan;10(1):125-45.

Background

NNC45-0781 is a tissue-selective estrogen partial-agonist.

NNC45-0781 (NNC 45-0781) shows that it is a very promising tissue-selective estrogen agonist. Total serum cholesterol is significantly increased in the vehicle-treated group as compared to the sham animals. All of the animals receiving NNC45-0781 at doses of 10 nmol/g or higher, has significantly lower levels of total serum cholesterol as compared to the vehicle treated group[1].

[1]. Bury PS, et al. Synthesis and pharmacological evaluation of novel cis-3,4-diaryl-hydroxychromanes as high affinity partial agonists for the estrogen receptor. Bioorg Med Chem. 2002 Jan;10(1):125-45.

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