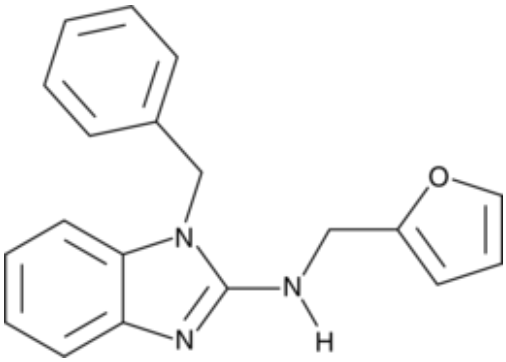
Product Data Sheet

Product Name: AC1903
Cat. No.: GC40860

Chemical Properties

Cas. No.	831234-13-0		
SMILES	C12=CC=CC=C1N=C(NCC3=CC=CO3)N2CC4=CC=CC=C4		
Formula	C19H17N3O	M.Wt	303.4
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,DMSO:PBS(pH 7.2) (1:4): 0.2 mg/ml,Ethanol: 1 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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



Background

AC1903 is an inhibitor of transient receptor potential canonical channel 5 (TRPC5; IC50 = 14.7 µM). It is selective for TRPC5 over TRPC4 and TRPC6 at concentrations up to 100 and 30 µM, respectively. It inhibits TRPC5 in a concentration-dependent manner in HEK293 cells when used at concentrations ranging from 1 to 100 µM. AC1903 (30 µM) inhibits angiotensin II-induced production

of reactive oxygen species (ROS) in wild-type podocytes and podocytes expressing a mutant angiotensin II type 1 (AT1) receptor that cannot be inactivated and endocytosed. It also suppresses proteinuria as well as reduces pseudocyst formation and podocyte loss in an AT1 receptor transgenic rat model of kidney disease when administered at a dose of 50 mg/kg twice per day. In a model of hypertension-induced focal segmental glomerulosclerosis (FSGS) using Dahl salt-sensitive rats, AC1903 decreases the rate of proteinuria when administered at the beginning of a high-salt diet and prevents progression when administered one week following initiation of a high-salt diet.

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