Product Data Sheet

Product Name: Benzomalvin A
Cat. No.: GC40889

Chemical Properties

Cas. No.	157047-96-6		
SMILES	O=C1N2C(C(CC3=CC=CC=C3)N(C)C(C4=C2C=CC=C4)=O)=NC5=CC=CC=C51		
Formula	$C_{24}H_{19}N_3O_2$	M.Wt	381.4
Solubility	DMF: Soluble,DMSO: Soluble,Ethanol: Soluble,Methanol: Soluble	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	Benzomalvin A		

Background

Benzomalvin A is a fungal metabolite produced by Penicillium. It inhibits yeast α-glucosidase in vitro (IC50 = 383.2 μM). In vivo, benzomalvin A (3.1-31.6 mg/kg) decreases plasma glucose levels in mice following administration of sucrose. It also decreases the plasma glucose postprandial peak in nicotinamide-streptozotocin-induced hyperglycemic mice when administered at a dose of 10 mg/kg. Benzomalvin A also acts as an antagonist of neurokinin-1 (NK1) receptors, inhibiting binding of substance P to guinea pig, rat, and human NK1 (Kis = 12, 42, and 43 μM, respectively).

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