Product Data Sheet

Product Name: CS476 (NSC302998)
Cat. No.: GC32638

Chemical Properties

Cas. No.	41177-35-9		
SMILES	O=C(C1=C(OCC2)C2=CC=C1)NCCC3=CC=C(S(=O)(NC(NC4CCCCC4)=O)=O)C=C3		
Formula	$C_{24}H_{29}N_3O_5S$	M.Wt	471.57
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	CS476 (NSC302998)		

Background

CS476 is a potent hypoglycaemic agent.

In normal fasting dogs, rabbits, rats and mice the maximal hypoglycaemia produced by intravenous administration of CS476 is comparable on a weight basis to that produced by Glibenclamide. Randomized Latin square experiments in dogs show that 0.03 mg/kg orally of CS476 and of Glibenclamide cause the same maximal decrease of blood glucose and that CS476 has the shorter duration of action. CS476 has no hypoglycaemic effect in totally pancreatectomized dogs nor in streptozotocin diabetic dogs and rats. The insulin releasing activity is studied in dogs after intravenous and oral administration of equipotent doses of CS476, Tolbutamide and Glibenclamide[1].

[1]. Jorgensen KD. The pharmacology of a new hypoglycaemic agent N-[4-(2-(2,3-dihydrobenzo(b)furan-m-carboxamido)-ethyl)-benzenesulphonyl]-N'-cyclohexylurea (NOVO CS 476). I. Pharmacological studies on the hypoglycaemic effect. Acta Pharmacol Toxicol (Copenh). 1977 Feb;40(2):216-26.

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