Product Data Sheet

Product Name: Nitroxazepine (CIBA 2330Go)
Cat. No.: GC31029

Chemical Properties

Cas. No.	47439-36-1		
SMILES	O=C1N(CCCN(C)C)C2=CC=CC=C2OC3=CC=C([N+]([O-])=O)C=C13		
Formula	$C_{18}H_{19}N_3O_4$	M.Wt	341.36
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	Nitroxazepine (CIBA 2330Go)		

Background

Nitroxazepine is a tricyclic antidepressant (TCA) for the treatment of depression. Nitroxazepine acts as a serotonin-norepinephrine reuptake inhibitor.

The in vitro effect of Nitroxazepine (Sintamil), as a modulator alone and in combination with hydroxyurea (HU), on cytotoxicity is studied in 16 cases of human chronic myeloid leukemia (CML). The cytotoxicity of the drugs as a function of the exposure dose (HU, 100 μM; Nitroxazepine, 10 μg/mL) and the exposure time (1 h) to the agent is investigated. Cytotoxicity is evaluated as the inhibition of incorporation of [3H-methyl]thymidine in the nucleic acids of CML cells. Cytotoxicity of HU is greatly enhanced ($P<0.001$) by 1 h exposure of the CML cells to Nitroxazepine. The present data indicate that Nitroxazepine potentiates the cytotoxic activity of HU in CML cells[1]. Nitroxazepine is indicated for the treatment of nocturnal enuresis. Nitroxazepine has similar effects to imipramine, but with certain advantages, such as lower anticholinergic side effects.

[1]. Pradhan SG, et al. Augmentation of hydroxyurea cytotoxicity by sintamil in human chronic myeloid leukemia cells. Tumori. 1986 Oct 31;72(5):507-10.

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