

Product Data Sheet

Product Name: Arimoclomol

Cat. No.: GC52332

Chemical Properties

Cas. No. 289893-25-0

SMILES O[C@H](CN1CCCCC1)CON=C(C2=CN(=O)=CC=C2)Cl

Formula C₁₄H₂₀ClN₃O₃

M.Wt 313.8

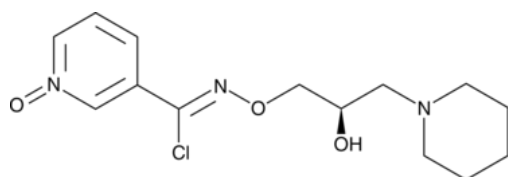
Solubility DMSO: soluble

Storage -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

Arimoclomol is a co-inducer of heat shock proteins (Hsps).^{1,2} It increases pancreatic Hsp60 and Hsp70 levels, decreases malondialdehyde (MDA) and protein carbonyl levels, increases glutathione peroxidase (GPX) activity, and decreases Cu/Zn superoxide dismutase (SOD) activity in a rat model of cholecystokinin (CCK) octapeptide-induced acute pancreatitis when administered at a dose of 20 mg/kg.¹ Arimoclomol (10 mg/kg, i.p.) increases spinal cord levels of Hsp70 and Hsp90 and motoneuron survival, decreases disease severity, and increases lifespan in a Cu/Zn SOD mutant (SOD1^{G93A}) transgenic mouse model of amyotrophic lateral sclerosis (ALS).²

1. Rakonczay, Z., Jr., Iványi, B., Varga, I., et al. Nontoxic heat shock protein coinducer BRX-220 protects against acute pancreatitis in rats. *Free Radic. Biol. Med.* 32(12):1283-1292 (2002).
2. Kieran, D., Kalmer, B., Dick, J.R.T., et al. Treatment with arimoclomol, a coinducer of heat shock proteins, delays disease progression in ALS mice. *Nat. Med.* 10(4):402-405 (2004).

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

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