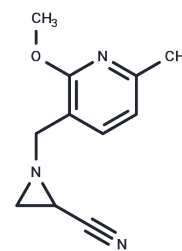


Ciamexon

Chemical Properties

CAS No. :	75985-31-8
Formula:	C ₁₁ H ₁₃ N ₃ O
Molecular Weight:	203.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Ciamexon (Ciamexone) is a novel immunomodulator that has shown promising results in experimental models of autoimmune disease with little demonstrated cytotoxicity. Ciamexon can be used to study endocrine ophthalmopathies and diabetes mellitus, with slight improvement in ophthalmic disease following short-term administration.
Targets(IC50)	Others
In vivo	Ciamexon on the development of diabetes in BB rats. Ciamexon was given once daily for 6 days per week beginning with the age of 42 or 50 days up to 120 days. For comparison, cyclosporin A (10 mg/kg) was applied following the same protocol. At 1 mg/kg, Ciamexon administration led to the complete prevention of diabetes in females but was not beneficial in males. At 10 mg/kg the drug caused significant suppression of diabetes development in males but more pronounced in females. Both, a reduction in the incidence of diabetes and a delay in the onset of hyperglycemia was observed only in females. After administration of cyclosporin A none of the animals developed diabetes. Ciamexon treatment did not affect granulocyte and lymphocyte counts and subsets in the peripheral blood except for a tendency to suppress eosinophilia. The growth of animals was not retarded. It is concluded that Ciamexon seems to influence the autoimmune state of the BB rat resulting in partial suppression of the disease.[1]

Solubility Information

Solubility	DMSO: 55 mg/mL (270.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9203 mL	24.6015 mL	49.2029 mL
5 mM	0.9841 mL	4.9203 mL	9.8406 mL
10 mM	0.492 mL	2.4601 mL	4.9203 mL
50 mM	0.0984 mL	0.492 mL	0.9841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kiesel U, et al. Suppression of spontaneous insulin-dependent diabetes in BB rats by administration of ciamexone. J Immunopharmacol. 1986;8(3):393-406.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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