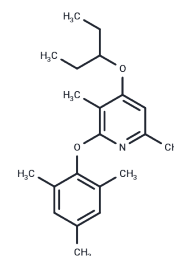


CP 316311

## Chemical Properties

CAS No. : 175139-41-0  
 Formula: C<sub>21</sub>H<sub>29</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 327.46  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CP 316311 is a specific CRF1 receptor antagonist with potential antidepressant activity and may be used in the study of depression.
Targets(IC50)	CRFR
In vitro	CP-316311 is a CRF1 receptor antagonist that completely antagonizes CRF-stimulated adenylyl cyclase activity in rat cortex and endogenously expressed human CRF1 receptors in IMR32 cells[1].
In vivo	CP-316311 (3.2 mg/kg) demonstrates oral efficacy in central nervous system (CNS) models in vivo, blocking the effects of exogenous and endogenous CRF in rodent CNS models[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0538 mL	15.269 mL	30.5381 mL
5 mM	0.6108 mL	3.0538 mL	6.1076 mL
10 mM	0.3054 mL	1.5269 mL	3.0538 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 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

Chen YL, et al. Synthesis and SAR of 2-aryloxy-4-alkoxy-pyridines as potent orally active corticotropin-releasing factor 1 receptor antagonists. J Med Chem. 2008 Mar 13;51(5):1377-84.

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