
Product Data Sheet

Product Name: Progabide (SL 76002)

Cat. No.: GC33521

Chemical Properties

Cas. No. 62666-20-0

SMILES O=C(N)CCC/N=C(C1=CC=C(Cl)C=C1)\C2=CC(F)=CC=C2OFormula C17H16ClFN2O2 M.Wt 334.77

Solubility DMSO : 250 mg/mL (746.78 mM; Need ultrasonic) Storage Store at -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 **Protocol****Animal experiment:**

Male Wistar rats weighing 170 to 240 g are caged in groups of three under diurnal lighting conditions with free access to food and water. The rats are accustomed to handling (housing 1 per cage for 30 min, injecting with saline, 1 mL/100 g body weight) in the period of 7 days before the beginning of the experiment. Progabide is injected as a suspension in saline containing 0.1% Tween 80. Control rats are treated IP with the corresponding vehicle (1 mL/100 g body weight). Ether stress is performed and 15 min after the beginning of the stressful procedure the animals are sacrificed[1].

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

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References:

[1]. Manev H, et al. Progabide, a GABA mimetic drug, stimulates the secretion of plasma corticosterone in rats. Pharmacol Biochem Behav. 1987 Dec;28(4):443-6.

Background

Progabide is a gamma-aminobutyric acid receptor (GABA) agonist.

Progabide is a gamma-aminobutyric acid receptor (GABA) agonist. Doses of 50, 100 and 200 mg/kg Progabide given IP to male Wistar rats increase the plasma corticosterone levels by 244, 365 and 476% respectively ($t=6.44$ to 12.55 , $p<0.01$). 10 mg/kg of Progabide fails to change the concentration of corticosterone in plasma ($t=0.76$, N.S.). The increased plasma corticosterone level induced by administration of 200 mg/kg Progabide is evident 30 ($t=2.625$, $p<0.05$), 60 ($t=13.13$, $p<0.001$) and 120 min ($t=4.07$, $p<0.01$) after drug injection, but returns to the control value 240 min after drug injection ($t=0.86$, N.S.). The greatest corticosterone rise (compare with the corresponding control) is reached 60 min following the administration of Progabide[1].

[1]. Manev H, et al. Progabide, a GABA mimetic drug, stimulates the secretion of plasma corticosterone in rats. Pharmacol Biochem Behav. 1987 Dec;28(4):443-6.

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