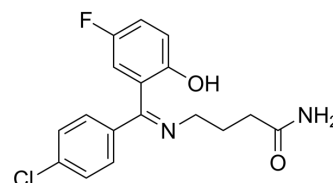


Progabide

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-A0173 | | |
| CAS No.: | 62666-20-0 | | |
| Molecular Formula: | C ₁₇ H ₁₆ ClFN ₂ O ₂ | | |
| Molecular Weight: | 334.77 | | |
| Target: | GABA Receptor | | |
| Pathway: | Membrane Transporter/Ion Channel; Neuronal Signaling | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (746.78 mM; Need ultrasonic)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 2.9871 mL | 14.9356 mL | 29.8713 mL |
| | 5 mM | 0.5974 mL | 2.9871 mL | 5.9743 mL |
| | 10 mM | 0.2987 mL | 1.4936 mL | 2.9871 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Progabide is a gamma-aminobutyric acid receptor (GABA) agonist. |
| IC₅₀ & Target | GABA receptor ^[1] |
| In Vivo | <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

PROTOCOL

Animal Administration ^[1]

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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA