Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Nefiracetam

Catalog No: tcsc2382

Available Sizes

Size: 50mg

Size: 100mg

Specifications

CAS No:
77191-36-7

Formula:
$C_{14}H_{18}N_2O_2$

Pathway:
Neuronal Signaling;Membrane Transporter/Ion Channel

Target:
GABA Receptor;GABA Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
DM9384;DZL-221

**Observed Molecular Weight:**
246.3

Product Description

Nefiracetam is a GABAergic, cholinergic, and monoaminergic neuronal systems enhancer for Ro 5-4864-induced convulsions.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Target: GABA Receptor

Nefiracetam induces a short-term depression of ACh-evoked currents at submicromolar concentrations (0.01-0.1 μM) and a long-term enhancement of the currents at micromolar concentrations (1-10 μM). Nefiracetam interacts with PKA and PKC pathways, which may explain a cellular mechanism for the action of cognition-enhancing agents. Lower (submicromolar) concentrations of the nootropic Nefiracetam reduces ACh-evoked currents to 30% (0.01 μM) and 38% (0.1 μM) of control after a 10-minute treatment [1].

Nefiracetam administered orally inhibits Ro 5-4864-induced convulsions in EL mice. Nefiracetam also efficiently inhibits Ro 5-4864-induced convulsions in DDY mice at doses higher than 10 mg/kg [2]. Nefiracetam administered daily 1 hour before each training session facilitates the acquisition process of the avoidance response [3].
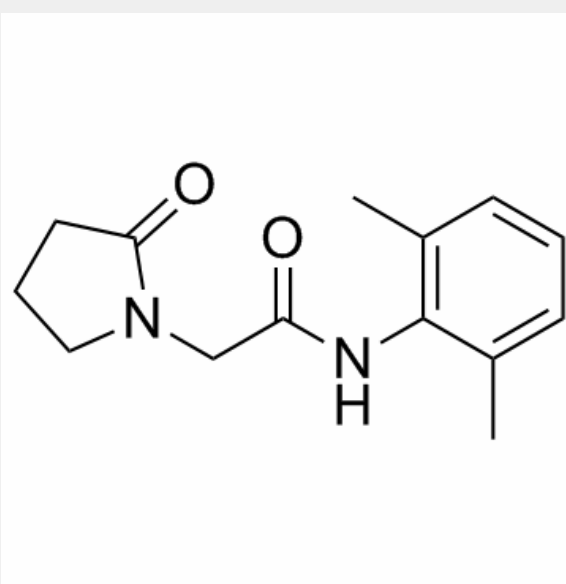
All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!