Product Data Sheet

Product Name: Nefiracetam
CAS No.: 77191-36-7
Cat. No.: HY-B0340
MWt: 246.30
Formula: C14H18N2O2
Purity: >98%

Solubility: DMSO 50 mg/mL; Water 5 mg/mL

Mechanisms:
Pathways: Membrane Transporter/Ion Channel; Target: GABA Receptor
Pathways: Neuronal Signaling; Target: GABA Receptor

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

References:

Caution: Not fully tested. For research purposes only

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