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

Coluracetam

Catalog No: tcsc2196

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
135463-81-9

Formula:
$C_{19}H_{23}N_3O_3$

Pathway:
Membrane Transporter/Ion Channel;Neuronal Signaling

Target:
iGluR;iGluR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 20 mg/mL (58.58 mM); H2O : 0.4 mg/mL (1.17 mM; Need ultrasonic and warming)

Alternative Names:
MKC-231

Observed Molecular Weight:
341.4

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

Product Description

Coluracetam(MKC-231) is a new choline uptake enhancer.

IC50 value:

Target:

in vitro: MKC-231 (10(-10)-10(-6) moll) significantly increased high affinity choline uptake (HACU) when it was incubated with the hippocampal synaptosomes of ethylcholine mustard aziridinium ion (AF64A) treated rats, but not of normal rats. MKC-231 did not affect the AChE activity, [3H]- quinuclidinyl benzilate binding, and [3H]-pirenzepine binding [1].

in vivo: Oral administration of MKC-231 (1-10 mg/kg) significantly improved the learning deficits in the Morris\' water maze of AF64A-treated rats, but it did not produce any significant side effects, like tremor, salivation or hypothermia, which were observed in rats treated with high doses of tacrine [1]. In acute behavioral experiments, MKC-231 and THA had no significant effect on AF64A-induced memory deficits at any doses tested (0.3, 1.0 and 3.0 mg/kg), whereas Dup 996, at a dose of 1.0 mg/kg, significantly improved memory deficits. In chronic experiments, MKC-231 improved memory deficit at all doses tested (0.3, 1.0, or 3.0 mg/kg p.o., once daily for 11 days) and Dup 996 did so only at a dose of 3.0 mg/kg, whereas THA did not improve memory deficit at any doses tested [2].