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

Siramesine (hydrochloride)

Catalog No: tcsc2464

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
224177-60-0

Formula:
$C_{30}H_{32}ClFN_2O$

Pathway:
GPCR/G Protein

Target:
Sigma Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 42 mg/mL (85.53 mM)

Alternative Names:
Lu 28-179 hydrochloride

Observed Molecular Weight:
491.04

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

Product Description

Siramesine(Lu 28-179) Hcl is a selective sigma-2 receptor agonist, which has been shown to trigger cell death of cancer cells and to exhibit a potent anticancer activity in vivo.

IC50 value:

Target: sigma-2 receptor; lysosome-destabilizing agent

siramesine can induce rapid cell death in a number of cell lines at concentrations above 20 μM. In HaCaT cells, cell death was accompanied by caspase activation, rapid loss of mitochondrial membrane potential (MMP), cytochrome c release, cardiolipin peroxidation and typical apoptotic morphology, whereas in U-87MG cells most apoptotic hallmarks were not notable, although MMP was rapidly lost [1]. Siramesine, a sigma-2 receptor agonist originally developed as an anti-depressant, can induce cell death in transformed cells through a mechanism involving lysosomal destabilization [2].

in vivo: SA4503 or siramesine given jointly with MEM (as well as with AMA) decreased the immobility time in rats. The effect of SA4503 and AMA co-administration was antagonized by progesterone, a sigma1 receptor antagonistic neurosteroid. Combined treatment with siramesine and AMA was modified by neither progesterone nor BD1047 (a novel sigma antagonist with preferential affinity for sigma1 sites) [3]