

FPS-ZM1, RAGE antagonist; Neuroprotectant

Catalog	Unit
TBI1635-5MG	5 mg
TBI1635-25MG	25 mg

Product Details

Formal Name: 4-Chloro-N-cyclohexyl-N-(phenylmethyl)benzamide

Molecular Formula: C₂₀H₂₂ClNO

Formula Weight: 327.10

CAS Number: 945714-67-0

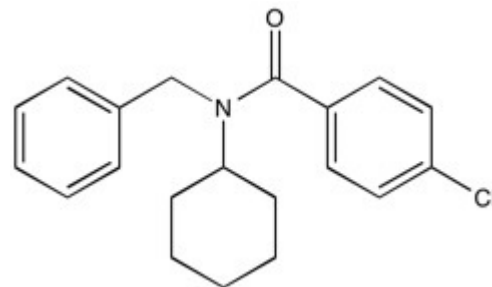
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

RAGE antagonist; Neuroprotectant

Functions

A high-affinity RAGE (Receptor for Advanced Glycation End products) antagonist ($K_i = 25$ nM). It lowers levels of A β via binding to the V domain of RAGE and can block multiple mechanisms of A β 40- and A β 42-induced cellular stress in RAGE-expressing brain endothelium, neurons and microglia in vitro and in vivo. In a rat model of intracerebral hemorrhage, FPS-ZM1 attenuates blood-brain barrier and white matter fiber damage. It ameliorates inflammatory damage after acute intracerebral hemorrhage via downstream blockade of high mobility box-1(HMGB1) signaling. Attenuates AGE-induced neuroinflammation and oxidative stress in rat microglia. BBB permeable.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.