Product Name: FPS-ZM1
CAS No.: 945714-67-0
Cat. No.: HY-19370
MWt: 327.85
Formula: C20H22ClNO
Purity: >98%
Solubility: 10 mM in DMSO

Mechanisms:
Pathways: Neuronal Signaling; Target: Amyloid-β

Biological Activity:
FPS-ZM1 is a high-affinity RAGE-specific inhibitor that blocks Aβ binding to the V domain of RAGE with Ki of 25 ± 5 nM in RAGE-transfected CHO cells.
IC50 value: 25 ± 5 nM (Ki) [1]
Target: Aβ
in vitro: FPS-ZM1 inhibits Aβ40- and Aβ42-induced cellular stress in RAGE-expressing cells. [1] FPS-ZM1 penetrates the blood-brain barrier and binds specifically and exclusively to RAGE, substantially reducing the protein levels of various cytokines, including TNF-α, IL-1β, and IL-6.[3] in vivo: FPS-ZM1 is nontoxic to mice and readily crossed the blood-brain barrier (BBB). In aged APPsw/0 mice overexpressing human Aβ-precursor protein, a transgenic mouse model of AD with established Aβ pathology, FPS-ZM1 inhibits RAGE-mediated influx of circulating Aβ40 and Aβ42 into the brain. In brain, FPS-ZM1 binds exclusively to RAGE, which inhibits β-secretase activity and Aβ production and...

References:

Caution: Not fully tested. For research purposes only

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