

Catalog Number: CM02697

## 产品信息

**Catalog Number:**  
CM02697

**CAS号:**  
945714-67-0

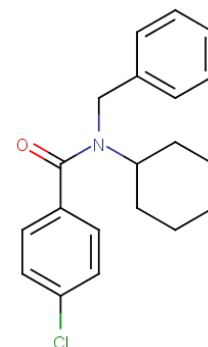
**分子式:**  
C<sub>20</sub>H<sub>22</sub>ClNO

**主要靶点:**  
advanced glycation end products|Beta Amyloid

**主要通路:**  
其他|神经科学

**分子量:**  
327.85

**溶解度:**  
DMSO:198.3 mM



## 靶点活性

RAGE:25 nM. (Ki)

## 体外活性

FPS-ZM1 blocks A $\beta$  binding to the V domain of RAGE and inhibited A $\beta$  40- and A $\beta$  42-induced cellular stress in RAGE-expressing cells in vitro. It blocks binding of other ligands to RAGE as well, such as S100B, AGE, and HMGB1, which have been suggested to contribute to RAGE-mediated long-term tissue damage in models of diabetes, immune/inflammatory disorders, and AD[1].

## 体内活性

FPS-ZM1 is nontoxic to mice and readily crossed the blood-brain barrier (BBB). It effectively controls progression of an A $\beta$ -mediated brain disorder and the related neurovascular and cognitive dysfunction in 17-month-old APPsw/0 mice with fully developed A $\beta$  and amyloid pathology by blocking RAGE actions at the BBB and in brain. Also, FPS-ZM1 blocks RAGE-dependent BACE1 expression and activity in brain of 17-month-old APPsw/0 mice[1].

## 细胞实验

CHO cells are treated for 72 hours with different concentrations of inhibitors ranging from 10 nM to 10  $\mu$ M. The cellular toxicity was determined using the WST-8 Assay Kit. (Only for Reference)

## 描述

FPS-ZM1 is a high-affinity RAGE specific inhibitor that blocks A $\beta$  binding to the V domain of RAGE.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years