

Product Data Sheet

Product Name: RAGE 229

Cat. No.: GC70997

Chemical Properties

Cas. No. 2143072-85-7

Formula $C_{23}H_{22}N_4O_2$ M.Wt 386.45

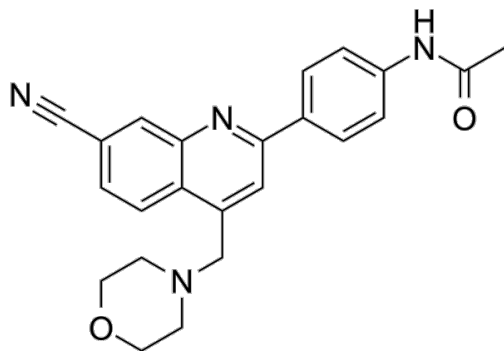
Solubility DMSO : 100 mg/mL (258.77 mM; ultrasonic and warming and heat to 80°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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RAGE 229 is an orally active ctRAGE-DIAPH1 inhibitor. RAGE 229 can inhibit the intracellular RAGE signaling by inhibiting the interaction between the cytoplasmic tail of RAGE(ctRAGE) and Diaphanous-1(DIAPH1).

RAGE229 has affinity for the ctRAGE with K_D value of 2 nM and inhibits SMC migration with an IC_{50} value of 26 nM^[1].

RAGE229 (oral gavage, 5 mg/kg, twice daily, for 4 days) assuages short- and long-term complications of diabetes in mice^[1].

RAGE229 (oral or iv.; 150, 50 and 15 ppm chow; 30, 10, and 3 mg/kg per day per mouse) (5 mg/kg, ip. , every 12 hours for four total doses) reduces plasma concentrations of TNF- α , IL-6, and CCL2/JE-MCP1 in diabetic mice, and reduces pathological and functional indices of diabetes-like kidney disease^[1].

References:

[1]. Michael B Manigrasso, et al. Small-molecule antagonism of the interaction of the RAGE cytoplasmic domain with DIAPH1 reduces diabetic complications in mice. Sci Transl Med. 2021 Nov 24;13(621):eabf7084.

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