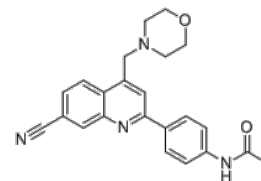


Product Name : RAGE229
Cat. No. : PC-72843
CAS No. : 2143072-85-7
Molecular Formula : C₂₃H₂₂N₄O₂
Molecular Weight : 386.455
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

RAGE229 (RAGE-229) is a specific antagonist of **ctRAGE-DIAPH1** interaction, high potently binds to cytoplasmic tail of **RAGE** (ctRAGE) with KD of 2 nM.

RAGE229 directly competes with DIAPH1 for RAGE binding, antagonizes the RAGE-DIAPH1 complex in a dose-dependent manner.

RAGE229 inhibits CML-AGE stimulated cultured smooth muscle cells (SMCs) migration with IC₅₀ of 26 nM, shows no effect on PDGFBB-stimulated SMC migration.

RAGE229 also shows IC₅₀ of 120 nM for inhibition of human SMC migration in primary human aortic SMCs.

RAGE229 assuaged short- and long-term complications of diabetes in both male and female mice, without lowering blood glucose concentrations.

RAGE229 reduced plasma concentrations of TNF-α, IL-6, and CCL2/JE-MCP1 in diabetic mice, in parallel with reduced pathological and functional indices of diabetes-like kidney disease in type 1-like diabetic C57BL/6J mice.

References

Michaele B Manigrasso, et al. *Sci Transl Med.* 2021 Nov 24;13(621):eabf7084.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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