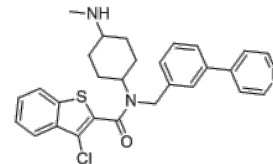


Product Name : Frizzled6 agonist SAG1.3
Cat. No. : PC-38140
CAS No. : 364590-63-6
Molecular Formula : C₂₈H₂₈ClN₃OS
Molecular Weight : 490.062
Target : Frizzled
Solubility : 10 mM in DMSO



Biological Activity

Frizzled6 agonist SAG1.3 is a small molecule SMO agonist that targets **Frizzled6 (FZD6)** as a partial agonist with limited subtype selectivity.

Frizzled6 agonist SAG1.3 binds FZD6 and evokes a conformational change reminiscent of that seen in other agonist-bound GPCRs.

In competition experiments, increasing concentrations of unlabeled SAG1.3 decreased BODIPY-cyclopamine (300 nM) binding to Nluc-FZD6 in a concentration-dependent manner (pK_i=5.6).

SAG1.3 mediates recruitment of mGsi proteins to FZD6 and induces conformational changes in FZD6, induces FZD6-dependent dissociation of heterotrimeric G_i and phosphorylation of ERK1/2, and modifies the interactions between FZD6 and DVL2.

References

Paweł Kozieliwicz, et al. *Nat Commun.* 2020 Jan 21;11(1):414.

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

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