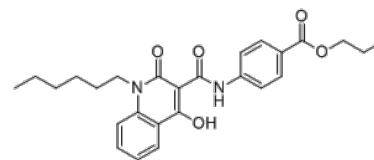


Product Name : GSA-10
Cat. No. : PC-62172
CAS No. : 300833-95-8
Molecular Formula : C₂₆H₃₀N₂O₅
Molecular Weight : 450.535
Target : Smoothened (Smo)
Solubility : 10 mM in DMSO



Biological Activity

GSA-10 is a novel small-molecule positive modulator of **Smoothened** with EC₅₀ of 1.2 μM in the differentiation assay. GSA-10 promotes the differentiation of multipotent mesenchymal progenitor cells into osteoblasts, this effect on cell differentiation is inhibited by Smo antagonists, such as MRT-83, SANT-1, LDE225, and M25 in the nanomolar range. GSA-10 binds to a novel Smo active site, and belongs to a new class of Smo agonists.

References

- Gorojankina T, et al. *Mol Pharmacol*. 2013 May;83(5):1020-9.
Fleury A, et al. *Sci Rep*. 2016 Mar 24;6:23479.
Manetti F, et al. *Eur J Med Chem*. 2016 Oct 4;121:747-57.

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

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