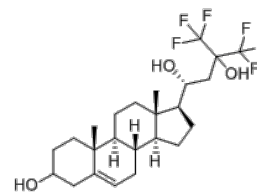


Product Name : NSC12
Cat. No. : PC-60628
CAS No. : 102586-30-1
Molecular Formula : C₂₄H₃₄F₆O₃
Molecular Weight : 484.523
Target : FGFR
Solubility : 10 mM in DMSO



Biological Activity

NSC12 is an orally active small-molecule chemical that acts as an extracellular **FGF trap**, binds immobilized FGF3, FGF4, FGF6, FGF8, FGF16, FGF18, FGF20, and FGF22 with Kd of 16-120 uM, inhibits FGF-dependent tumor growth, angiogenesis and metastases.

NSC12 shows no apparent interaction for the other FGFs.

NSC12 inhibits HSPG/FGF/FGFR ternary complex formation induced by FGFR1(IIIc)-binding FGFs KATO III cells, inhibits FGFR1 phosphorylation in HUVECs stimulated by FGF2 with inhibition of HUVEC proliferation with IC50 of 6.5 uM.

NSC12 demonstrates significant inhibition of H520 tumor growth in vivo.

References

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Castelli R, et al. *J Med Chem*. 2016 May 26;59(10):4651-63.

Ronca R, et al. *Oncotarget*. 2017 Aug 1;8(47):82583-82592.

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

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