

Product Data Sheet

Product Name: NSC 12
Cat. No.: GC44465

Chemical Properties

Cas. No. 102586-30-1

SMILES O[C@H](C1)CC[C@@]2(C)C1=CC[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])C[C@]4([H])C(O)CC(O)(C(F)(F)F)C(F)(F)F

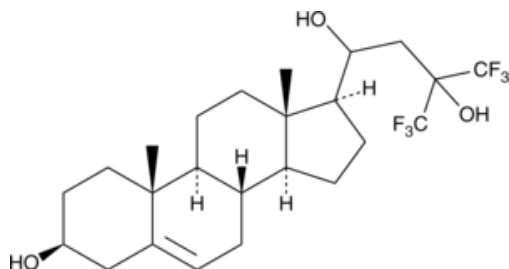
Formula C₂₄H₃₄F₆O₃ M.Wt 484.5

Solubility DMF: 2 mg/ml, DMSO: 0.1 mg/ml, Ethanol: 20 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.33 mg/ml
Storage Store at -20°C

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

NSC 12 is an extracellular trap for fibroblast growth factor 2 (FGF2) that binds FGF2 ($K_d = 51 \mu\text{M}$) and interferes with its interaction with FGFR1, without affecting the ability of FGF2 to bind heparin or heparin sulfate proteoglycans (HSPGs). NSC 12 also binds several other, but not all, FGF isoforms with K_d values ranging between 16 and 120 μM , preventing them from forming HSPG/FGF/FGFR ternary complexes. NSC 12 inhibits FGF-dependent angiogenesis and tumor cell proliferation in vitro and reduces tumor growth in mice.

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

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