

WAY 316606 HCl (915759-45-4 free base)

Chemical Properties

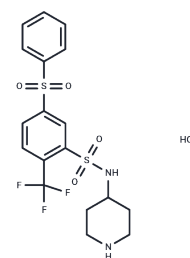
CAS No. :

Formula: C₁₈H₁₉F₃N₂O₄S₂·HCl

Molecular Weight: 484.94

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	WAY 316606 HCl is a selective small-molecule inhibitor of secreted frizzled-related protein-1 (EC ₅₀ : 0.65 μM).
Targets(IC ₅₀)	Others
In vitro	WAY 316606 HCl is a selective inhibitor of sFRP-1. It bound to sFRP-2 with 10-fold weaker affinity (K _d : 1 μM). In a fluorescence polarization binding assay, WAY 316606 HCl inhibited sFRP-1 (IC ₅₀ : 0.5 μM). Although sequence of sFRP-1, -2 and -5 showed high identity, WAY 316606 HCl selectively inhibited sFRP-1 against other two proteins. In the osteosarcoma U2-OS cell line used in a cell-based transient transfection and luciferase reporter assay, treatment of WAY 316606 HCl dose-dependently increased Wnt-signaling (EC ₅₀ : 0.65 μM). In an ex vivo assay using neonatal murine calvarium, treatment of WAY 316606 HCl dose-dependently enhanced the osteoblast activity and stimulated bone formation up to 60% (EC ₅₀ : 1 nM) [1][2].
In vivo	Although WAY 316606 had good aqueous solubility and good stability, WAY 316606 HCl exerted high plasma clearance (77 mL/min/kg) in rats, which suppressed sustained exposure and limited the compound's advancement as an orally administered anabolic bone agent [1].

Solubility Information

Solubility	DMSO: ≥24.25 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0621 mL	10.3106 mL	20.6211 mL
5 mM	0.4124 mL	2.0621 mL	4.1242 mL
10 mM	0.2062 mL	1.0311 mL	2.0621 mL
50 mM	0.0412 mL	0.2062 mL	0.4124 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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