



WAY 316606

Catalog No: tcsc0996

| Z A | vailable Sizes |
|-----------------------------|---|
| Size: 5n | ng |
| Size: 10 |)mg |
| Size: 50 |)mg |
| Size: 10 | 00mg |
| S | pecifications |
| CAS No 915759- | |
| Formula | a: -3 ^N 2 ^O 4 ^S 2 |
| Pathwa Stem Ce | |
| Target: sFRP-1 | |
| Purity / >98% | Grade: |
| Solubili 10 mM ii | |

Product Description

448.48

Observed Molecular Weight:

WAY 316606 is an inhibitor of the secreted protein **sFRP-1**, an endogenous antagonist of the secreted glycoprotein **Wnt**. The affinity



of WAY-316606 for sFRP-1 is determined using the FP binding assay with IC_{50} of 0.5 μ M.

IC50 & Target: IC50: 0.5 μ M (sFRP-1)^[1]

In Vitro: The EC $_{50}$ of WAY-316606 for Wnt-Luciferase Activity from U2-OS Cells is 0.65 μ M $^{[1]}$. WAY-316606 binds to secreted frizzled-related protein (sFRP)-1 inhibitor with a K $_{D}$ of 0.08 μ M and inhibits sFRP-1 with an EC $_{50}$ of 0.65 μ M. WAY-316606 also binds to sFRP-2, albeit over 10 times weaker with a K $_{D}$ of 1 μ M. Using a fluorescence polarization binding assay that employs a fluorescent probe compound and purified human sFRP-1 protein in a competitive-binding format, the IC $_{50}$ for WAY-316606 is 0.5 μ M $^{[2]}$.

In Vivo: WAY-316606 increases bone formation when tested in a neonatal murine calvarial assay. WAY-316606 increases total bone area up to 60% in a dose-dependent manner with an EC50 of about 1 nM. WAY-316606 has good aqueous solubility, moderate to low inhibition of cytochrome p450 isozymes (3A4, 2D6, 2C9) and good stability in rat and human liver microsomes ($t_{1/2}$ >60 min in each species). In female Sprague-Dawley rats, WAY-316606 exhibits high plasma clearance (77 mL/min/kg, greater than hepatic blood flow) following a single intravenous bolus dose (2 mg/kg), which results in a rapid decline of drug exposure in the plasma despite the route of administration^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!