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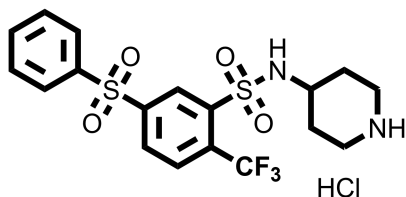
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## Secreted Frizzled-related Protein-1 (sFRP-1) Inhibitor WAY-316606

**Chemical Name:** 5-(Phenylsulfonyl)-N-4-piperidinyl-2-(trifluoromethyl)benzene sulfonamide hydrochloride



Molecular Weight:	484.94
Formula:	C <sub>18</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> .HCl
Purity:	≥98%
CAS#:	423148-78-1
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

### Biological Activity:

WAY-316606 is a novel potent and selective inhibitor of secreted frizzled-related protein-1 (sFRP-1) with an IC<sub>50</sub> ~ 0.65 μM. It prevents sFRP-1 from interacting with Wnt and thus increases Wnt signaling. WAY-316606 can increase total bone area in a murine calvarial organ culture assay.

### How to Use:

**In vitro:** WAY-316606 was used at 1-10 μM final concentration in various in vitro assays.

**In vivo:** n/a

### Reference:

1. Bodine PV, et al. A small molecule inhibitor of the Wnt antagonist secreted frizzled-related protein-1 stimulates bone formation. (2009) *Bone*. 44(6):1063-8.
2. Moore WJ, et al. Modulation of Wnt signaling through inhibition of secreted frizzled-related protein I (sFRP-1) with N-substituted piperidinyl diphenylsulfonyl sulfonamides. (2009) *J Med Chem*. 52(1):105-16.
3. Moore WJ, et al. Modulation of Wnt signaling through inhibition of secreted frizzled-related protein I (sFRP-1) with N-substituted piperidinyl diphenylsulfonyl sulfonamides: part II. (2010) *Bioorg Med Chem*. 18(1):190-201.

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