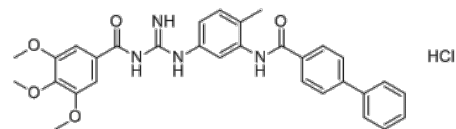


Product Name : MRT-83 hydrochloride
Cat. No. : PC-62174
CAS No. : 1359944-60-7
Molecular Formula : C₃₁H₃₁ClN₄O₅
Molecular Weight : 575.062
Target : Smoothened (Smo)
Solubility : 10 mM in DMSO



Biological Activity

MRT-83 hydrochloride is a potent **Smoothened** antagonist that blocks **Hedgehog** (Hh) signaling in various assays with IC₅₀ of 10 nM.

MRT-83 hydrochloride inhibits Bodipy-cyclopamine binding to human and mouse Smo but does not modify Wnt signaling, blocks BC binding to HEK-hSmo cells with IC₅₀ of 4.6 nM.

MRT-83 hydrochloride abrogates the agonist-induced trafficking of endogenous mouse or human Smo, efficiently antagonizes Hh signaling in vivo.

References

Roudaut H, et al. Mol Pharmacol. 2011 Mar;79(3):453-60.

Solinas A, et al. J Med Chem. 2012 Feb 23;55(4):1559-71.

Lauressergues E, et al. Pharmacol Res Perspect. 2016 Mar 4;4(2):e00214.

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

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