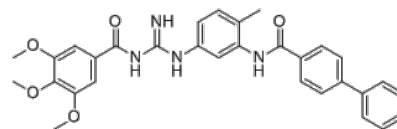


**Product Name** : MRT-83  
**Cat. No.** : PC-62173  
**CAS No.** : 1263131-92-5  
**Molecular Formula** : C<sub>31</sub>H<sub>30</sub>N<sub>4</sub>O<sub>5</sub>  
**Molecular Weight** : 538.604  
**Target** : Smoothened (Smo)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MRT-83 is a potent Smoothened antagonist that blocks **Hedgehog (Hh)** signaling in various assays with IC<sub>50</sub> of 10 nM. MRT-83 inhibits Bodipy-cyclopamine binding to human and mouse **Smo** but does not modify Wnt signaling, blocks BC binding to HEK-hSmo cells with IC<sub>50</sub> of 4.6 nM. MRT-83 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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