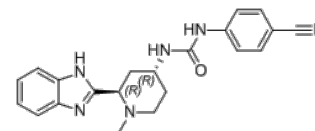


**Product Name** : Glasdegib  
**Cat. No.** : PC-36044  
**CAS No.** : 1095173-27-5  
**Molecular Formula** : C<sub>21</sub>H<sub>22</sub>N<sub>6</sub>O  
**Molecular Weight** : 374.448  
**Target** : Smoothened (Smo)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Glasdegib (PF-04449913) is a potent, orally bioavailable **smoothened (SMO)** inhibitor with IC<sub>50</sub> of 5 nM in the Gli-luciferase reporter assays, binds to human SMO (AA181-787) with IC<sub>50</sub> of 4 nM.

Glasdegib (PF-04449913) inhibits sonic hedgehog (Shh) stimulated luciferase expression in mouse embryonic fibroblasts with an IC<sub>50</sub> of 6.8 nM, significantly reduces medulloblastoma growth in a Ptch1+/-p53+/- allograft model at doses that decreased murine Shh target gene expression.

Glasdegib (PF-04449913) reduced downstream GLI2 protein and cell cycle regulatory gene expression in humanized stromal co-cultures and LSC (leukemia stem cells) xenografts.

## References

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Wagner AJ, et al. *Clin Cancer Res.* 2015 Mar 1;21(5):1044-51.

Sadarangani A, et al. *J Transl Med.* 2015 Mar 21;13:98.

Martinelli G, et al. *Lancet Haematol.* 2015 Aug;2(8):e339-46.

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

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