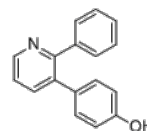


**Product Name** : SD133  
**Cat. No.** : PC-49249  
**CAS No.** : 1239467-61-8  
**Molecular Formula** : C<sub>17</sub>H<sub>13</sub>NO  
**Molecular Weight** : 247.297  
**Target** : Cadherin  
**Solubility** : 10 mM in DMSO



### Biological Activity

SD133 (Sd-133) is a drug-like small molecule inhibitor of adhesion molecule **cadherin 11 (CDH11)**, binds specifically to the CDH11 binding pocket with KD of 25.2 uM in SPR assays.

Sd-133 significantly inhibits the growth of all three CDH11 positive cell lines with an EC50 of 3 µM but has little effect on CDH11 negative MCF7 cells.

Sd-133 also inhibits MDA-MB-231 matrigel™ outgrowth at 1 µM but is inactive on control MDA-MB-435 melanoma cells (express N-cadherin) or MCF7 breast cancer cells that express E and P-cadherin.

Sd-133 inhibits MDA-MB-231 colony formation.

SD133 (40 mg/kg and 10 mg/kg, i.p.) significantly reduces growth of pre-existing tumors in a dose-dependent manner in C57BL/6J mice engrafted with mT3 pancreatic cancer cells.

### References

Shahin Assefnia, et al. *Oncotarget*. 2014 Mar 30;5(6):1458-74.

Ivana Peran, et al. *Gastroenterology*. 2021 Mar;160(4):1359-1372.e13.

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

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