| Product Name | $:$ SD133 |
| :--- | :--- |
| Cat. No. | $: \mathrm{PC}-49249$ |
| CAS No. | $: 1239467-61-8$ |
| Molecular Formula $:$ | $\mathrm{C}_{17} \mathrm{H}_{13} \mathrm{NO}$ |
| Molecular Weight | $: 247.297$ |
| Target | $:$ Cadherin |
| Solubility | $: 10 \mathrm{mM}$ 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 $3 \mu \mathrm{M}$ but has little effect on CDH11 negative MCF7 cells.
Sd-133 also inhibits MDA-MB-231 matrigel ${ }^{T M}$ outgrowth at $1 \mu \mathrm{M}$ 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 inhibitsMDA-MB-231 colony formation.
SD133 ( $40 \mathrm{mg} / \mathrm{kg}$ and $10 \mathrm{mg} / \mathrm{kg}$, 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.

