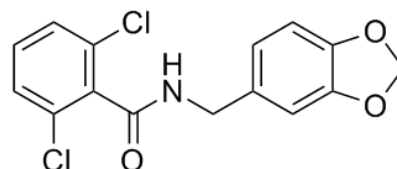


**Product Name** : Alda-1  
**Cat. No.** : PC-45563  
**CAS No.** : 349438-38-6  
**Molecular Formula** : C<sub>15</sub>H<sub>11</sub>Cl<sub>2</sub>NO<sub>3</sub>  
**Molecular Weight** : 324.1588  
**Target** : Aldehyde Dehydrogenase (ALDH)  
**Solubility** : DMSO: ≥ 51 mg/mL



## Biological Activity

Alda-1 is a small-molecule activator of **ALDH2**, particularly effective activator of ALDH2\*2 (EC50= 20 uM, increases the activity of the mutant, ALDH2\*2 (11-fold).

Alda-1 causes slight inhibition of GTN denitration and did not increase GTN-induced sGC activation in the presence of either variant; no effect on ADH1.

## References

Chen CH, et al. *Science*. 2008 Sep 12;321(5895):1493-5.

Beretta M, et al. *J Biol Chem*. 2010 Jan 8;285(2):943-52.

Ning S, et al. *Radiat Res*. 2012 Jul;178(1):69-74.

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

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