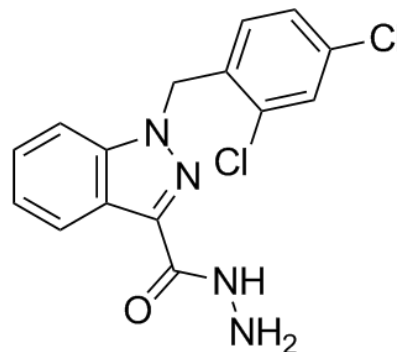


**Product Name** : Adjudin  
**Cat. No.** : PC-45593  
**CAS No.** : 252025-52-8  
**Molecular Formula** : C<sub>15</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>4</sub>O  
**Molecular Weight** : 335.188  
**Target** : Other Targets  
**Solubility** : DMSO: ≥ 34 mg/mL



## Biological Activity

Adjudin (AF-2364) is a potent analog of lonidamine known to disrupt germ cell adhesion, a potential candidate for male contraceptive development.

Adjudin (AF-2364) targets actin filament bundles at the apical ES, blocks the expression of PAR6 and 14-3-3 (also known as PAR5).

Adjudin (AF-2364) also induces apoptosis in cancer cells through a Caspase-3-dependent pathway.

Adjudin (AF-2364) inhibited LPS-induced IL-6 release and IL-6, IL-1 $\beta$ , TNF- $\alpha$  expression in BV2 microglial cells.

## References

Cheng CY, et al. *Spermatogenesis*. 2011 Oct;1(4):291-297.

Xie QR, et al. *Biochem Pharmacol*. 2013 Feb 1;85(3):345-55.

Shao J, et al. *J Neuroimmunol*. 2013 Jan 15;254(1-2):83-90.

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

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