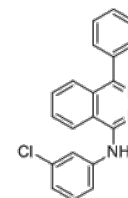


**Product Name** : MY-5445  
**Cat. No.** : PC-61344  
**CAS No.** : 78351-75-4  
**Molecular Formula** : C<sub>20</sub>H<sub>14</sub>ClN<sub>3</sub>  
**Molecular Weight** : 331.8  
**Target** : Phosphodiesterase (PDE)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MY-5445 is a specific **PDE5** inhibitor that inhibits human platelet aggregation induced by 3 uM ADP, 3 mg/ml of collagen and 100 ug/ml of arachidonic acid with IC<sub>50</sub> of 0.07, 0.02 and 0.17 uM, respectively.

MY-5445 shows no effect on either adenylate cyclase or guanylate cyclase activity.

MY-5445 inhibits human platelet aggregation by increasing cyclic GMP content.

MY-5445 is a useful probe for elucidating the role of cyclic GMP in platelet aggregation.

## References

Yamamoto T, et al. *J Biol Chem.* 1983 Dec 10;258(23):14173-7.

Hagiwara M, et al. *J Pharmacol Exp Ther.* 1984 Feb;228(2):467-71.

Souness JE, et al. *Br J Pharmacol.* 1989 Nov;98(3):725-34.

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

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