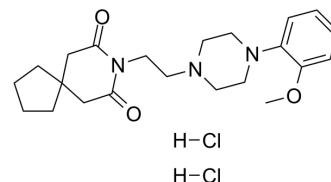


BMY 7378

| | |
|---------------------------|---|
| Cat. No.: | HY-100554 |
| CAS No.: | 21102-95-4 |
| Molecular Formula: | C ₂₂ H ₃₃ Cl ₂ N ₃ O ₃ |
| Molecular Weight: | 458.42 |
| Target: | Adrenergic Receptor; 5-HT Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | |
|-------------------------------------|--|---|---|-----------------------------|
| Description | BMY 7378 is a selective antagonist of α_{1D} -adrenoceptor (α_{1D} -AR). BMY 7378 binds to membranes expressing the cloned rat α_{1D} -AR with a >100-fold higher affinity ($K_i=2$ nM) than binding to either the cloned rat α_{1A} -AR ($K_i=800$ nM) or the hamster α_{1B} -AR ($K_i=600$ nM). BMY 7378 is a 5-HT _{1A} receptor partial agonist ^{[1][2]} . | | | |
| IC₅₀ & Target | rat α_{1A} -adrenergic receptor 800 nM (Ki) | hamster α_{1B} -adrenergic receptor 600 nM (Ki) | rat α_{1D} -adrenergic receptor 2 nM (Ki) | 5-HT _{1A} Receptor |
| In Vitro | BMY 7378 is selective for the α_1 adrenoceptor subtype (pK _i : hamster α_{1B} -adrenoceptor 6.2, human α_{1B} -adrenoceptor 7.2; bovine α_{1C} -adrenoceptor 6.1, human α_{1C} -adrenoceptor 6.6; rat α_{1D} -adrenoceptor 8.2, human α_{1D} -adrenoceptor 9.4) and has high affinity (pA ₂ , 8.9) for rat aorta α_1 -adrenoceptor ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |

REFERENCES

[1]. Piascik MT, et al. The specific contribution of the novel α_1 -D adrenoceptor to the contraction of vascular smooth muscle. *J Pharmacol Exp Ther.* 1995;275(3):1583-1589.

[2]. Goetz AS, et al. BMY 7378 is a selective antagonist of the D subtype of α_1 -adrenoceptors. *Eur J Pharmacol.* 1995;272(2-3):R5-R6.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA