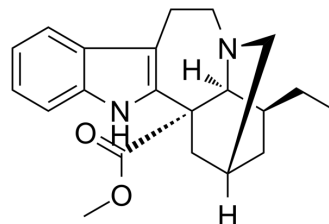


Coronaridine

| | |
|---------------------------|--|
| Cat. No.: | HY-121118 |
| CAS No.: | 467-77-6 |
| Molecular Formula: | C ₂₁ H ₂₆ N ₂ O ₂ |
| Molecular Weight: | 338.44 |
| Target: | Wnt |
| Pathway: | Stem Cell/Wnt |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



BIOLOGICAL ACTIVITY

| Description | Coronaridine, an iboga type alkaloid, inhibits the wnt signaling pathway by decreasing β -catenin expression ^[1] . |
|-------------|---|
| In Vitro | <p>Coronaridine (0-40 μM; 24 hours) is against non-cancer cells with IC₅₀ values >40 μM. It against wnt-dependent cells with IC₅₀ values of 10.4, 11.6 and 24.4 μM for SW480, HCT116 and DLD1 cells, respectively^[1].</p> <p>Coronaridine (0-40 μM; 24 hours) inhibits β-catenin expression, but the protein levels of p-β-catenin at Ser33, Ser37, and Thr41 and p-β-catenin at Ser 45 [p-b-catenin (S45)] are unchanged^[1].</p> <p>In whole-cell patch clamp recordings, Catharanthine (1-300 μM) are respectively co-applied with GABA at concentrations corresponding to the EC₃₀ value for each receptor subtype. Both congeners potentiated different GABAARs in a concentration-dependent manner^[2].</p> <p>At higher concentrations, however, Catharanthine starts to inhibit GABA-activated currents due to the reduced amplitude and rebound current, where the threshold concentration depended on the receptor subtype (e.g., > 30 μM for α1β2; > 100 μM for α1β2γ2 and α2β2γ2). The PAM activity of Catharanthine's are depended on the receptor subtype: α1β2 (4.6\pm0.8 μM), >α2β2γ2 (12.6\pm3.8 μM), α1β2γ2 (14.4 \pm 4.6 μM)^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

CUSTOMER VALIDATION

- Brain Behav. 2022 Jul 18;e2684.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kensuke Ohishi, et al. Coronaridine, an iboga type alkaloid from *Tabernaemontana divaricata*, inhibits the Wnt signaling pathway by decreasing β -catenin mRNA expression. *Bioorg Med Chem Lett*. 2015 Sep 15;25(18):3937-40.

[2]. Hugo R Arias, et al. Coronaridine congeners potentiate GABA A receptors and induce sedative activity in mice in a benzodiazepine-insensitive manner. *Prog Neuropsychopharmacol Biol Psychiatry*. 2020 Jul 13;101:109930

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