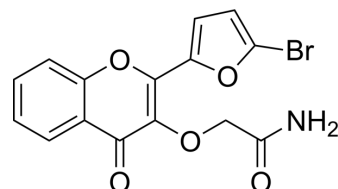


CB7993113

| | |
|--------------------|---|
| Cat. No.: | HY-111450 |
| CAS No.: | 819827-50-4 |
| Molecular Formula: | C ₁₅ H ₁₀ BrNO ₅ |
| Molecular Weight: | 364.15 |
| Target: | Aryl Hydrocarbon Receptor |
| Pathway: | Immunology/Inflammation |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | CB7993113 is a potent AHR antagonist, with an IC ₅₀ of 0.33 μM. CB7993113 directly binds AHR protein and blocks AHR nuclear translocation. CB7993113 inhibits polycyclic aromatic hydrocarbon (PAH)- and TCDD-induced reporter activity by 75% and 90% respectively ^[1] . |
| In Vitro | CB7993113 exhibits no toxicity when added at concentrations at least up to 20 μM to several human cells including HepG2 hepatoma cells, BP1, D3, Hs578T, or MDA-MB-231 breast cancer cells, and primary human-induced pluripotent stem cells ^[1] . CB7993113 significantly reduces the invasive phenotype of ER-/PR-/HER2- breast cancer cells in vitro ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | CB7993113 effectively blocks acute, 50 mg/kg DMBA-induced hepatic CYP1A1 induction and bone marrow toxicity in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Parks AJ, et al. In silico identification of an aryl hydrocarbon receptor antagonist with biological activity in vitro and in vivo. Mol Pharmacol. 2014 Nov;86(5):593-608.

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

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