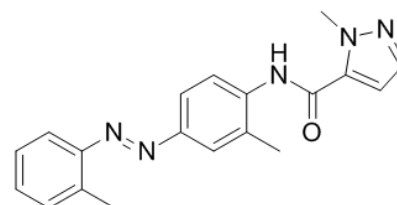


**Product Name** : CH-223191  
**Cat. No.** : PC-43148  
**CAS No.** : 301326-22-7  
**Molecular Formula** : C<sub>19</sub>H<sub>19</sub>N<sub>5</sub>O  
**Molecular Weight** : 333.3871  
**Target** : Aryl hydrocarbon Receptor (AhR)  
**Solubility** : DMSO: ≥ 35 mg/mL



## Biological Activity

CH-223191 is a potent, specific antagonist of AhR (aryl hydrocarbon receptor), potently inhibits TCDD-induced AhR-dependent transcription with IC<sub>50</sub> of 0.03 μM; shows more inhibitory potency and no agonist-like effect, compared with flavone, resveratrol, and α-naphthoflavone, as well as estrogenic potency; inhibits TCDD-AhR binding and TCDD-induced nuclear translocation and DNA binding of AhR, prevents the expression of cytochrome P450 enzymes, target genes of the AhR; potently prevents TCDD-elicited cytochrome P450 induction, liver toxicity, and wasting syndrome in mice

## References

- Kim SH, et al. Mol Pharmacol. 2006 Jun;69(6):1871-8.  
Veldhoen M, et al. J Exp Med. 2009 Jan 16;206(1):43-9.  
Gramatzki D, et al. Oncogene. 2009 Jul 16;28(28):2593-605.  
Shackleford G, et al. Proc Natl Acad Sci U S A. 2018 Feb 6;115(6):E1319-E1328.

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

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