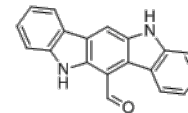


**Product Name** : FICZ  
**Cat. No.** : PC-61627  
**CAS No.** : 172922-91-7  
**Molecular Formula** : C<sub>19</sub>H<sub>12</sub>N<sub>2</sub>O  
**Molecular Weight** : 284.31  
**Target** : Aryl hydrocarbon Receptor (AhR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

FICZ (6-Formylindolo[3,2-b]carbazole) is a high affinity **aryl hydrocarbon receptor (AhR)** agonist with K<sub>d</sub> of 70 pM. FICZ induces transient expression of CYP1A1 in vitro, and potentiates NK cell IFN- $\gamma$  production and cytolytic activity. FICZ enhances NK cell control of tumors in an NK cell- and AhR-dependent manner in vivo;. FICZ is an endogenous AhR ligand.

## References

- Rannug U, et al. *Chem Biol*. 1995 Dec;2(12):841-5.  
Wincent E, et al. *J Biol Chem*. 2009 Jan 30;284(5):2690-6.  
Shin JH, et al. *Proc Natl Acad Sci U S A*. 2013 Jul 23;110(30):12391-6.

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

E-mail: tech@probechem.com