



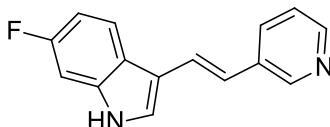
**Catalog # 10-1443**

**680C91**

CAS# 163239-22-3

6-Fluoro-3-[(1E)-2-(3-pyridinyl)ethenyl]-1H-indole

Lot # X105425



A potent and selective inhibitor of tryptophan 2,3-dioxygenase (TDO)  $K_i=42$  nM<sup>1,2</sup>. Displays no activity against indoleamine 2,3-dioxygenase, MAO-A and B and does not effect serotonin uptake. Elevates CSF tryptophan by up to 260% and CSF serotonin by 170% of basal<sup>2</sup>. TDO inhibition by 680C91 in glioma cells blocked the release of kynurenine, an endogenous tumor promoting AHR ligand<sup>4</sup>.

- 1) Schwarcz and Pellicciari (2002), *Manipulation of brain kynurenines: glial targets, neuronal effects, and clinical opportunities*; J. Pharmacol. Exp. Therap., **303** 1
- 2) Salter *et al.* (1995), *the effects of a novel and selective inhibitor of tryptophan 2,3-dioxygenase on tryptophan and serotonin metabolism*; Biochem. Pharmacol, **49** 1435
- 3) Salter *et al.* (1995), *The effects of an inhibitor of tryptophan 2,3-dioxygenase and a combined inhibitor of tryptophan 2,3-dioxygenase and 5-HT reuptake in the rat*, Neuropharmacology, **34** 217
- 4) Opitz *et al.* (2011), *An endogenous tumour-promoting ligand of the human aryl hydrocarbon receptor*, Nature, **478** 197

**PHYSICAL DATA**

Molecular Weight:	238.27
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> FN <sub>2</sub>
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml) or Ethanol (up to 10 mg/ml)
Physical Description:	Light brown solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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