

680C91, Tryptophan 2,3-dioxygenase inhibitor

Catalog	Unit
TBI1443-5MG	5 mg
TBI1443-25MG	25 mg

Product Details

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

Molecular Formula: C₁₅H₁₁FN₂

Formula Weight: 238.27

CAS Number: 163239-22-3

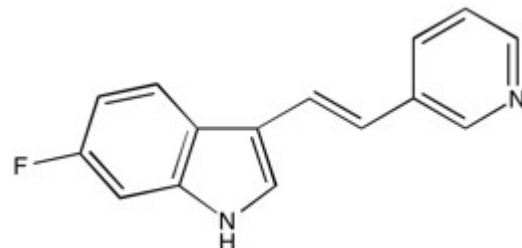
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml) or in Ethanol (up to 10 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Tryptophan 2,3-dioxygenase inhibitor

Functions

A potent and selective inhibitor of tryptophan 2,3-dioxygenase (TDO) (K_i=42 nM). 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. TDO inhibition by 680C91 in glioma cells blocked the release of kynurenine, an endogenous tumor promoting AHR ligand.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.