

**Product Name:** LM 10

**Catalog No.:** 5794

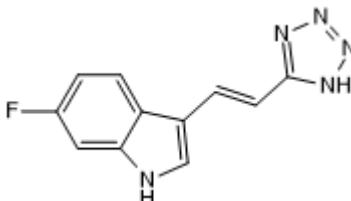
**Batch No.:** 1

CAS Number: 1316695-35-8

IUPAC Name: 6-Fluoro-3-[(1*E*)-2-(2*H*-tetrazol-5-yl)ethenyl]-1*H*-indole

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>8</sub>FN<sub>5</sub>  
**Batch Molecular Weight:** 229.21  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.64	3.52	30.55
Found	57.78	3.78	30.55

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 6-Fluoro-3-[(1E)-2-(2H-tetrazol-5-yl)ethenyl]-1H-indole

**Description:**

Selective tryptophan 2,3-dioxygenase (TDO) inhibitor (IC<sub>50</sub> values are 0.62 and 2 μM for human and mouse TDO, respectively). Exhibits selectivity for TDO over IDO, MAO-A, MAO-B, and a panel of receptors and transporters. Reduces growth of TDO-expressing P815 mastocytoma tumors in mice. Orally bioavailable.

**Physical and Chemical Properties:**

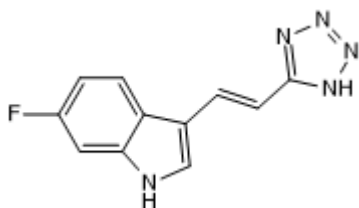
Batch Molecular Formula: C<sub>11</sub>H<sub>8</sub>FN<sub>5</sub>

Batch Molecular Weight: 229.21

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM with gentle warming

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Pilotte et al** (2012) Reversal of tumoral immune resistance by inhibition of tryptophan 2,3-dioxygenase. *Proc.Natl.Acad.Sci.U.S.A.* **109** 2497. PMID: 22308364 .

**Dolusić et al** (2011) Tryptophan 2,3-dioxygenase (TDO) inhibitors. 3-(2-(pyridyl)ethenyl)indoles as potential anticancer immunomodulators. *J.Med.Chem.* **54** 5320. PMID: 21726069 .

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