

IDO5L

Catalog No: tcsc1495



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

914471-09-3

Formula:

$C_9H_7ClFN_5O_2$

Pathway:

Metabolic Enzyme/Protease

Target:

Indoleamine 2,3-Dioxygenase (IDO)

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 52 mg/mL (191.43 mM)

Observed Molecular Weight:

271.64

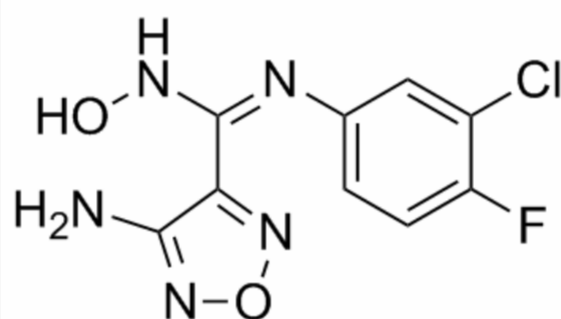
Product Description

IDO5L is a potent indoleamine 2,3-dioxygenase (**IDO**) inhibitor with an **IC₅₀** of 67 nM.

IC50 & Target: IC50: 67 nM (IDO), 19 nM (IDO, in HeLa cell)^[1]

In Vitro: IDO5L (Compound 5I) is a potent (HeLa IC₅₀=19 nM) inhibitor of IDO^[1]. IDO5L is one of the highest potent inhibitors of the IDO1 (IC₅₀=19 nM, in HeLa cell assay)^[2].

In Vivo: Testing of IDO5L in mice demonstrates pharmacodynamic inhibition of IDO, as measured by decreased kynurenine levels (>50%) in plasma and dose dependent efficacy in mice bearing GM-CSF-secreting B16 melanoma tumors. Initial oral pharmacokinetic studies show that IDO5L is rapidly cleared ($t_{1/2}$ 50 (PB_{adj} IC₅₀=1.0 μM, murine cellular B16 IC₅₀=46 nM). Notably, kynurenine levels increase back to baseline after 4 h as IDO5L exposure levels decreased below the mouse PB_{adj} IC₅₀ from 1.0 to 0.1 μM^[1].



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