

Epacadostat

Catalog No: tcsc1496



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 2g



Specifications

CAS No:

1204669-58-8

Formula:

$C_{11}H_{13}BrFN_7O_4S$

Pathway:

Metabolic Enzyme/Protease

Target:

Indoleamine 2,3-Dioxygenase (IDO)

Form:

White to gray (Solid)

Purity / Grade:

99.44%

Solubility:

DMSO : 100 mg/mL (228.19 mM; Need ultrasonic)

Storage Instruction:

2-8°C

Alternative Names:

INCB 024360;IDO Inhibitor 1; 1,2,5-Oxadiazole-3-carboximidamide, 4-[[2-[(aminosulfonyl)amino]ethyl]amino]-N'-(3-bromo-4-fluorophenyl)-N-hydroxy

Observed Molecular Weight:

438.23

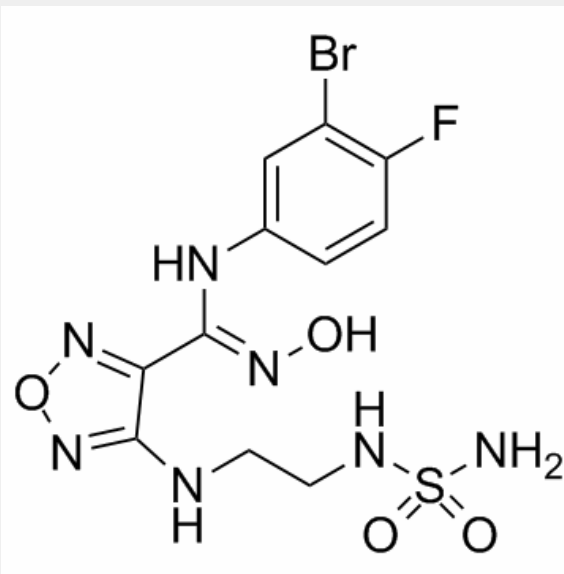
Product Description

Epacadostat (INCB 024360) is a potent and selective **indoleamine 2,3-dioxygenase 1 (IDO1)** inhibitor with an **IC₅₀** of 71.8 nM.

IC50 & Target: IC50: 71.8 nM±17.5 nM (IDO1), 7.1 nM±0.6 nM (IDO1, in HeLa cells)^[1]

In Vitro: In cellular assays, Epacadostat (INCB 024360) selectively inhibits human IDO1 with IC₅₀ values of approximately 10 nM, demonstrating little activity against other related enzymes such as IDO2 or tryptophan 2,3-dioxygenase (TDO). Epacadostat (INCB 024360) also exhibits significant activity toward mouse IDO1, with an IC₅₀ value of 52.4 nM±15.7 nM, in a similar assay using mouse IDO1-transfected HEK293/MSR cells^[1].

In Vivo: Female Balb/c mice bearing CT26 tumors are treated orally twice daily for 12 d with Epacadostat at 100 mg/kg. Epacadostat (INCB 024360) suppresses kynurenine equivalently in plasma, tumors, and lymph nodes. In naïve C57BL/6 mice, 50 mg/kg Epacadostat (INCB 024360) decreases plasma kynurenine levels within 1 hour and those levels stay at least 50% suppressed through the 8-hour time course^[2].



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