Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

GDC-0834

Catalog No: tcsc3123

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1133432-49-1

Formula:
$C_{33}H_{36}N_6O_3S$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
Btk

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 32 mg/mL (53.62 mM)

Observed Molecular Weight:
596.74

Product Description

GDC-0834 is a potent and selective **BTK** inhibitor. GDC-0834 inhibits BTK with an in vitro **IC_{50}** of 5.9 and 6.4 nM in biochemical and cellular assays, respectively, and in vivo **IC_{50}** of 1.1 and 5.6 μM in mouse and rat, respectively.

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IC50 & Target: IC50: 5.9 nM (BTK)[1]

In Vitro: GDC-0834 suppresses BTK kinase activity with an IC_{50} value of 5.9±1.1 nM with Hill slope value of −0.84±0.07 (mean±S.E.)[1]. GDC-0834 is shown to be a potent reversible inhibitor of six known aldehyde oxidase (AO) substrates with IC_{50} values ranging from 0.86 to 1.87 μM[2].

In Vivo: The treatment of BALB/c mice with GDC-0834 results in dose-dependent inhibition of pBTK-Tyr223. Animals dosed with 150 or 100 mg/kg GDC-0834 for 2 h show complete inhibition of pBTK-Tyr223 levels in blood, with a mean inhibition of 97 and 96%, respectively. In the rat CIA study, GDC-0834 inhibits pBTK-Tyr223 in rat blood in a dose-dependent manner. The IC_{50} estimate of pBTK-Tyr223 inhibition in rats is determined to be 5.6±1.6 μM with m of 0.51±0.087 (mean±S.E.)[1].