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

Dabrafenib Mesylate (GSK-2118436 Mesylate;GSK 2118436B)

Catalog No: tcsc1641

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Specifications

CAS No:
1195768-06-9

Formula:
$C_{24}H_{24}F_3N_5O_5S_3$

Pathway:
MAPK/ERK Pathway

Target:
Raf

Purity / Grade:
>98%

Solubility:

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DMSO : ≥ 36 mg/mL (58.47 mM)

Alternative Names:
GSK2118436 Mesylate;GSK 2118436B

Observed Molecular Weight:
615.67

Product Description

Dabrafenib (Mesylate) is a novel, potent, and selective **Raf kinase** inhibitor, and inhibits the kinase activity of B-Raf^{V600E}and c-Raf with **IC_{50}** values of 0.6 and 5.0 nM, respectively.

IC50 & Target: IC50: 0.6 nM (BRAF^{V600E}), 5 nM (CRAF)[4]

In Vitro: Dabrafenib (GSK2118436, 1 μM) with 0.01 μM GSK1120212 inhibits more than 90% of cell growth in the NRAS mutant clones. GSK2118436 is sufficient to reduce S6P phosphorylation in A375[1]. Dabrafenib suppresses the PolyP-mediated vascular barrier permeability, upregulation of inflammatory biomarkers, adhesion/migration of leukocytes, and activation and/or production of nuclear factor-κB, tumor necrosis factor-α, and interleukin-6[2]. Dabrafenib inhibits the release of HMGB1 and downregulates HMGB1-dependent inflammatory responses by enhancing the expressions of cell adhesion molecules (CAMs) in human endothelial cells[3].

In Vivo: Dabrafenib-treated females have mostly immature reproductive tracts with no evidence of ovulation, similar to age-matched controls; however, DAB-treated females have keratinized and histologically open vaginas[5].