

GDC-0623

Catalog No: tcsc2281



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1168091-68-6

Formula:

$C_{16}H_{14}F_4N_4O_3$

Pathway:

MAPK/ERK Pathway

Target:

MEK

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 30 mg/mL (65.76 mM)

Alternative Names:

RG 7421;MEK inhibitor 1

Observed Molecular Weight:

456.21

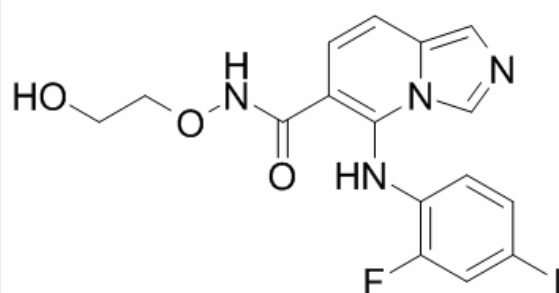
Product Description

GDC-0623 (RG 7421) is a potent, ATP-uncompetitive inhibitor of **MEK1** ($K_i=0.13$ nM, +ATP), and displays 6-fold weaker potency against HCT116 (KRAS (G13D), $EC_{50}=42$ nM) versus A375 (BRAF^{V600E}, $EC_{50}=7$ nM).

IC50 & Target: K_i : 0.13 nM (MEK1,+ATP)

In Vitro: GDC-0623 (RG 7421) and G-573 are able to prevent MEK phosphorylation by CRAF in vitro, and able to block MEK phosphorylation by BRAF(V600E)^[1]. GDC-0623 (RG 7421) is potent, ATP-uncompetitive inhibitors of MEK1 but shows distinct shifts in cellular activity compared with the other two inhibitors, only 6-fold half-maximum effective concentration (EC_{50}) decreases^[2].

In Vivo: GDC-0623 (RG 7421) (40 mg/kg, p.o.) shows percent tumour growth inhibition (%TGI) in MiaPaCa-2 xenograft model. GDC-0623 (RG 7421) and G-573 show superior antitumour activity compared to GDC-0623 (RG 7421) in all three KRAS models^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!