Web: www.taiclone.com
Tel: +886-2-2735-9682
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# GDC-0623

## Catalog No: tcsc2281

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
1168091-68-6

**Formula:**
$C_{16}H_{14}FIN_4O_3$

**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

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## 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: Ki: 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].