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

kobe2602

Catalog No: tcsc3093

Available Sizes

Size: 50mg

Size: 100mg

Size: 250mg

Specifications

CAS No:
454453-49-7

Formula:
$C_{14}H_9F_4N_5O_4S$

Pathway:
GPCR/G Protein

Target:
Ras

Purity / Grade:
>98%

Solubility:
DMSO : 14.3 mg/mL (34.10 mM; Need ultrasonic and warming)

Observed Molecular Weight:
419.31

Product Description

kobe2602 is a novel and effective small-molecule compound inhibiting Ras–Raf interaction by SBDD; exhibits potent activity to competitively inhibit the binding of H-Ras·GTP to c-Raf-1 RBD with a Ki value of 149 ± 55 μM.

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

IC50 value: 149 ± 55 uM (Ki) [1]

Target: Ras-Raf

These two compounds(Kobe0065 and Kobe2602), added to the culture medium at 2 and 20 μM, effectively reduced the amount of c-Raf-1 associated with H-Ras G12V in NIH 3T3 cells in a dose-dependent manner, indicating the inhibition of the cellular activity of Ras. A rough estimate of the IC50 value for the cellular Ras–Raf-binding inhibition was around 10 μM (Fig. 1B), which was not much different from the Ki values for the in vitro Ras–Raf-binding inhibition considering thequite low cellular concentration of Raf. A similar inhibitory effect was also observed with NIH 3T3 cells overexpressing K-Ras G12V. Both Kobe0065 and Kobe2602 at 20 μM efficiently inhibited the phosphorylation of MEK and ERK, downstream kinases of Raf in NIH 3T3 cells transiently expressing

H-Ras G12V, although the effect was slightly weaker than that of

2 μM sorafenib.