

# 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  $K_i$  value of  $149 \pm 55 \mu M$ .

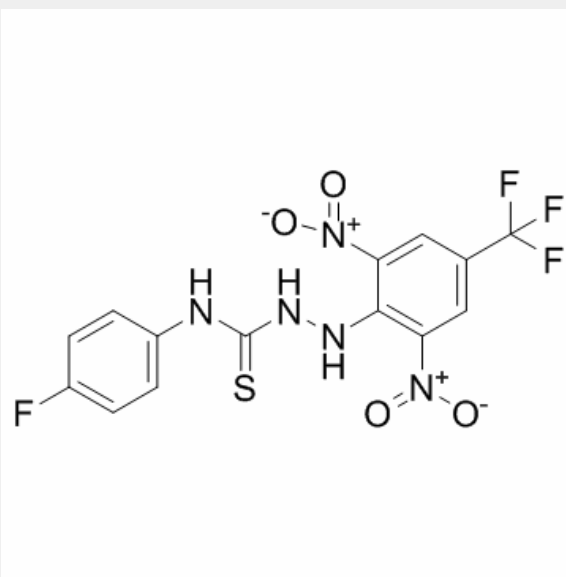
IC50 value: 149 ± 55 uM (Ki) [1]

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 the quite 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.



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