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

FMK

Catalog No: tcsc0648

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
821794-92-7

Formula:
$C_{18}H_{19}FN_4O_2$

Pathway:
MAPK/ERK Pathway

Target:
Ribosomal S6 Kinase (RSK)

Purity / Grade:
>98%

Solubility:
H2O :

Observed Molecular Weight:
342.37

Product Description

FMK is a an irreversible **RSK2** kinase inhibitor, that covalently modifies the C-terminal kinase domain of RSK.

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In Vitro: Pretreatment of ARVMs with 3 μM fmk attenuates the increase in Ser386 phosphorylation, but it has no inhibitory effect on the increase in Thr577 phosphorylation[1]. FMK inhibits relatively few protein kinases in the panel, although it does inhibit protein tyrosine kinases, such as Src, Lck, Yes and Eph-A2, as well as S6K1. FMK will not inhibit RSK if the N-terminal kinase domain are activated by a mechanism that is independent of the C-terminal domain[2]. Fmk potently inactivates the CTD auto-kinase activity of RSK1 and RSK2 with high specificity in mammalian cells. Targeting RSK2 by a specific small molecule RSK inhibitor fmk attenuates FGFR3-induced cytokine-independent growth in Ba/F3 cells. FMK inhibits cytokine-independent proliferation of Ba/F3 cells conferred by FGFR3[3].