# MCE RedChemExpress

## **Product** Data Sheet

#### UC-857993

**Cat. No.:** HY-124514

CAS No.: 487001-04-7 Molecular Formula:  $C_{25}H_{22}CINO_2$ 

Molecular Weight: 403.9

Target: Ras; ERK

Pathway: GPCR/G Protein; MAPK/ERK Pathway; Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

.OH

#### **BIOLOGICAL ACTIVITY**

Description UC-857993 is a selective SOS1-Ras inhibitor (K<sub>d</sub>=14.7 μM, His<sub>6</sub>-SOS1<sub>cat</sub>), suppressing catalytic activity. UC-857993 also

inhibits ERK and Ras activation, suppresses the growth of mouse embryonic fibroblasts (MEFs)[1].

In Vitro UC-857993 (0-80  $\mu$ M; 3 d) specifically inhibits the growth of wild-type MEFs, but did not inhibit the growth of carcinogenic H-Ras(G12V) expressing MEF<sup>[1]</sup>.

UC-857993 (60  $\mu$ M, 80  $\mu$ M; 2 h) dose-dependently inhibits Ras activation and downstream ERK activation mediated through EGFR-SOS1-Ras-Raf1-MEK-ERK signaling<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	Mouse embryonic fibroblasts
Concentration:	0, 40, 60, and 80 μ M
Incubation Time:	3 days
Result:	Selectively inhibited the growth of mouse fibroblasts, as exerting inhibition against wild-type mouse embryonic fibroblasts but not mouse embryonic fibroblasts expressing carcinogenic H-Ras(G12V).

### Western Blot Analysis $^{[1]}$

Cell Line:	NIH/3T3 cells
Concentration:	60 μΜ, 80 μΜ
Incubation Time:	2 hours; stimulated with 50 ng/ml EGF for 5 min
Result:	Inhibited EGF-induced the increase of the level of p-ERK and Ras-GTP.

#### **REFERENCES**

[1]. Evelyn CR, et al. Combined rational design and a high throughput screening platform for identifying chemical inhibitors of a Ras-activating enzyme. J Biol Chem. 2015

May 15;290(20):12879-98.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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