## **Product** Data Sheet

## **Everafenib**

Cat. No.: HY-150639

Molecular Formula:  $\mathsf{C_{20}H_{23}ClFN_5O_2S_2}$ 

Molecular Weight: 484.01 Raf Target:

Pathway: MAPK/ERK Pathway

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

Analysis.

## **BIOLOGICAL ACTIVITY**

Description

Everafenib is a potent and blood-brain barrier (BBB) penetrant BRAF inhibitor, also inhibits MAPK signaling. Everafenib has inhibitory activity against a panel of  $^{V600E}$ BRAF melanoma cell lines with IC $_{50}$  values of 2-10 nM, which is better than Dabrafenib (HY-14660) and Vemurafenib (HY-12057). Everafenib has efficacy in an intracranial mouse model of metastatic melanoma<sup>[1]</sup>.

IC<sub>50</sub> & Target

BRAF,  $MAPK^{[1]}$ 

In Vitro

Everafenib (1-10  $\mu$ M; 1 or 24 h) inhibits MAPK signaling in A375 cells<sup>[1]</sup>.

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

Western Blot Analysis<sup>[1]</sup>

Cell Line:	A375 ( <sup>V600E</sup> BRAF)
Concentration:	0.01, 0.1, 1 and 10 μM
Incubation Time:	1 or 24 h
Result:	Inhibited phospho-ERK1/2 in a dose-dependent manner, also inhibited phospho-MEK1/2.

In Vivo

Everafenib (50 mg/kg; IP; once daily, for 5 days) increases median survival of melanoma mice from 39 to 50.5 days<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female athymic nude mice (intracranially injected with 5×10 <sup>4</sup> A375 melanoma cells) <sup>[1]</sup>
Dosage:	50 mg/kg
Administration:	IP; once daily, for 5 days
Result:	Increased median survival from 39 to 50.5 days, and outperformed <u>Dabrafenib</u> (HY-14660).

## **REFERENCES**



Page 2 of 2 www.MedChemExpress.com