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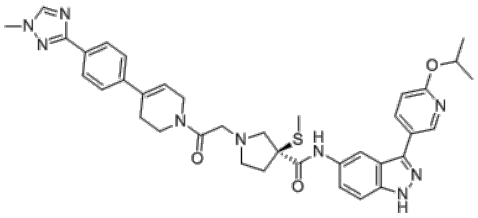
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MK-8353
Cat. No.	:	PC-62595
CAS No.	:	1184173-73-6
Molecular Formula	:	$C_{37}H_{41}N_9O_3S$
Molecular Weight	:	691.855
Target	:	ERK
Solubility	:	DMSO: 125 mg/mL (180 mM)



Biological Activity

MK-8353 (SCH-900353) is a highly potent, orally bioavailable, dual-specificity **ERK1/2** inhibitor with IC50 of 23.0/8.8 nM, respectively.
MK-8353 inhibits nonactivated ERK2 with IC50 of 0.5 nM, demonstrates excellent kinase selectivity over a 227-human kinase panel.
MK-8353 decreases pERK1, pERK2, and ribosomal S6 kinase (pRSK) proteins, with complete suppression of pERK1 and pERK2 observed at 30 nM in A2058 cells.
MK-8353 inhibits the in vitro proliferation of a panel of BRAFV600-mutant and RAS-mutant cancer cell lines.
MK-8353 exhibits in vivo antitumor activity against BRAFV600 mutant Colo-205 colon cancer model and the BRAFV600 mutant SK-MEL-28 melanoma model.

References

Moschos SJ, et al. ***JCI Insight.*** 2018 Feb 22;3(4). pii: 92352.

E-mail: tech@probechem.com