

Product Name : MK-8353

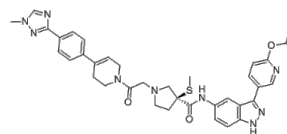
Synonyms : MK8353; SCH900353; SCH-900353

Cat No. : M10626

CAS Number : 1184173-73-6

Molecular Formula : C₃₇H₄₁N₉O₃S

Formula Weight : 691.86



Chemical Name : (S)-N-(3-(6-isopropoxy-1H-indazol-5-yl)-1H-pyridin-2-yl)-2-(4-(4-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl)-3,6-dihydropyridin-1(2H)-yl)-2-oxoethyl)-3-(methylthio)pyrrolidine-3-carboxamide

Description : MK-8353 (SCH-900353) is a highly potent, orally bioavailable, dual-specificity ERK1/2 inhibitor with IC₅₀ of 23.0/8.8 nM, respectively; inhibits nonactivated ERK2 with IC₅₀ of 0.5 nM, demonstrates excellent kinase selectivity over a 227-human kinase panel; decreases pERK1, pERK2, and ribosomal S6 kinase (pRSK) proteins, with complete suppression of pERK1 and pERK2 observed at 30 nM in A2058 cells, inhibits the in vitro proliferation of a panel of BRAFV600-mutant and RAS-mutant cancer cell lines; exhibits in vivo antitumor activity against BRAFV600 mutant Colo-205 colon cancer model and the BRAFV600 mutant SK-MEL-28 melanoma model. Colon Cancer Phase 1 Clinical

Pathway : MAPK/ERK Signaling

Target : ERK

Receptor : ERK

Solubility : —

SMILES : CC(C)OC1=NC=C(C=C1)C2=NNC3=C2C=C(C=C3)NC(=O)C4(CCN(C4)CC(=O)N5CCC(=CC5)C6=CC=C(C=C6)C7=NN(C=N7)C)SC

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

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