

Product Name : Selumetinib

Synonyms : ARRY-142886; AZD-6244

Cat No. : M15268

CAS Number : 606143-52-6

Molecular Formula : C₁₇H₁₅BrClFN₄O₃

Formula Weight : 457.68

Chemical Name : 1H-Benzimidazole-6-carboxamide, 5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl-

Description

A highly potent and selective, ATP-uncompetitive inhibitor of MEK1/2 with IC₅₀/K_i of 14.1 nM/22.6 nM for MEK1; shows no activity against other 40 serine/threonine and tyrosine kinases; inhibits cellular ERK1/2 phosphorylation (IC₅₀<40 nM), suppresses growth inhibition of several cell lines containing B-Raf and Ras mutations (IC₅₀=59-473 nM); causes growth of HT-29 xenograft tumors in nude mice. Skin Cancer Approved

Pathway : MAPK/ERK Signaling

Target : MEK

Receptor : MEK1

Solubility : DMSO: ≥ 34 mg/mL

SMILES : O=C(C1=C(NC2=CC=C(Br)C=C2Cl)C(F)=C3C(N(C)C=N3)=C1)NOCCO

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Huynh H, et al. Mol Cancer Ther. 2007 Jan;6(1):138-46. | 2. Yeh TC, et al. Clin Cancer Res. 2007 Mar 1;13(5):1576-83. | 3. Davies BR, et al. Mol Cancer Ther. 2007 Aug;6(8):2209-19.

