

Cat No. 07-V75

Selumetinib

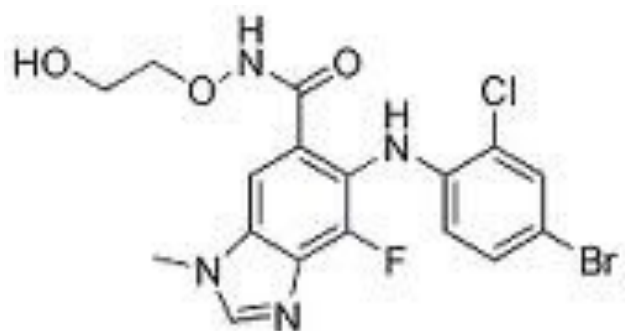
5mg

Selumetinib, also known as AZD6244, is a potent inhibitor of MAPK/ERK kinase 1/2. It is not competitive with ATP and inactivates the ERK1/2 phosphorylation. This is important because these kinases lie downstream to BFAF and RAGS genes. The effect of mutation in these genes is controlled by inhibiting the kinases downstream.



For research purposes only

TECHNICAL INFORMATION



Other Names: 5-[(2-bromo-4-chlorophenyl)amino]-4-fluoro-1-methyl-1H-benzimidazole-6-carboxamide

Chemical Formula: C₁₇H₁₅ClFN₄O₃

CAS Number: 606143-52-6

PubChem Substance ID: 10127622

Molecular Weight: 457.68

Purity: >99%

Appearance: Crystalline solid

Solubility: DMSO

IC₅₀ : 14 nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in 92 mg/mL of DMSO.

REFERENCES

1. MS, B.B., et al. (2012). Activity of the Mek inhibitor Selumetinib (AZD6244; ARRY-142886) in nasopharyngeal cancer cell lines. *Invest New Drugs*. S10637-012-9828-4.
2. Patel, S.P., et al (2012). Selumetinib (AZD6244; ARRY-142886) in the treatment of metastatic melanoma. *Expert Opin Investig Drugs*. 21:531-9.
3. Holt, S.V., et al (2012). The Mek 1/2 inhibitor, Selumetinib (AZD6244; ARRY-142886), enhances anti-tumor efficacy when combined with conventional chemotherapeutic agents in human tumor xenograft models. *Br J Cancer*. 106:858-66.