

Store at  
-20°C  
#38484**Selumetinib (AZD6244)**

10 mg



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

**Background**

Selumetinib (AZD6244), also known as ARRY-142886, is a highly potent and selective non-ATP competitive inhibitor of MEK with an IC<sub>50</sub> of 14 nM (1). Researchers have shown this small molecule to inhibit growth in cell lines containing B-Raf and Ras mutations with no effect on normal fibroblasts (1). Treatment with Selumetinib (AZD6244) induces apoptosis and differentiation in tumors from cells with B-Raf or K-Ras mutations (2).

**Molecular Formula**

C<sub>17</sub>H<sub>15</sub>BrCIFN<sub>4</sub>O<sub>3</sub>

**Molecular Weight**

457.7 g/mol

**Purity**

>98%

**CAS**

606143-53-6

**Solubility**

Soluble in DMSO at 9 mg/ml.

**Storage**

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

**Directions for Use**

Selumetinib (AZD6244) is supplied as a lyophilized powder. For an 18 mM stock, reconstitute 10 mg of powder in 1.21 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

**Background References**

1. Yeh, T.C. et al. (2007) *Clin Cancer Res* 13, 1576-83.
2. Davies, B.R. et al. (2007) *Mol Cancer Ther* 6, 2209-19.

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