Product Name: Selumetinib  
Catalog Number: T6218  
CAS Number: 606143-52-6  
Molecular Formula: C17H15BrClFN4O3  
Molecular Weight: 457.68  

Description: Selumetinib (AZD6244) is an effective, specific inhibitor of MEK1 and ERK1/2 phosphorylation (IC50: 14/10 nM).

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

Solubility

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>84 mg/mL (183.5 mM)</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&lt;1 mg/mL</td>
</tr>
<tr>
<td>Water</td>
<td>&lt;1 mg/mL</td>
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</tbody>
</table>

( < 1 mg/ml refers to the product slightly soluble or insoluble )

Receptor (IC50)

MEK1 14nM

Kinase Assay

Assay of MEK Kinase Activity: Anti-MEK1 antibody is used to immunoprecipitate MEK1 molecules. MEK kinase activity is measured as the ability of immuno-isolated MEK1 to activate recombinant ERK1 in a coupled assay using MBP as the end point of the assay. Phosphorylated MBP is resolved on a 14% SDS-PAGE gel and vacuum-dried before exposure to X-ray film.

Cell Assay

Cells are seeded at a density of 2.0 × 104. After 48 hours incubation, the cells are rinsed twice with culture media. Cells are treated with various concentrations of AZD6244 for 24 or 48 hours. Cell viability is determined by the 3-(4,5-dimethylthiazol-2-y1)-2,5-diphenyltetrazolium bromide (MTT) assay. Cell proliferation is assayed using a bromodeoxyuridine kit. (Only for Reference)

Cell line: Primary HCC cell lines including 2-1318, 4-1318 and 26-1004 cells

Animal Experiment

Animal Model: HCC xenografts in mice homozygous for the SCID (severe combined immunodeficiency) mutation

Reference


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Information for product storage and handling is indicated on the product datasheet. Targetmol products are stable for long term under the recommended storage conditions. Our products may be shipped under different conditions as many of them are stable in the short-term at higher or even room temperatures. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, please follow the storage recommendations on the product data
sheet.