**Product Name**: AZD4573  
**Catalog Number**: T10436  
**CAS Number**: 2057509-72-3  
**Molecular Formula**: C22H28ClN5O2  
**Molecular Weight**: 429.94

**Description**: AZD4573 is an effective and selective CDK9 inhibitor (IC50: <4 nM). It enables transient target engagement for the treatment of hematologic malignancies.

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

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<th>Solubility</th>
<th>DMSO</th>
<th>125 mg/mL (290.74 mM)</th>
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<td>(&lt;1 mg/mL refers to the product slightly soluble or insoluble)</td>
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| Receptor (IC50) | CDK9 | 4 nM |

**In vitro Activity**
Short-term treatment with AZD4573 led to a rapid dose- and time-dependent decrease in cellular pSer2-RNAPII, resulting in activation of caspase 3 and cell apoptosis in a broad range of hematological cancer cell lines (e.g. caspase activation EC50 13.7 nM in an acute myeloid leukemia model MV4-11).

**In vivo Activity**
AZD4573 exhibits a short half-life in multiple species (less than one hour in dog, rat, and monkey) and good solubility for intravenous administration.

**Reference**

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