

Store at
-20C
#69589**Adavosertib**

5 mg



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| Background | Adavosertib (MK-1775) is a potent, selective Wee1 kinase inhibitor with an IC ₅₀ value of 5.2 nM. Adavosertib inhibits phosphorylation of the Wee1 substrate Cdc2 at Tyr15, thereby abrogating the G2 DNA damage checkpoint (1). Wee1 inhibition in p53-deficient tumors by Adavosertib has been shown to inhibit and regress tumor growth (2). |
| Molecular Formula | C ₂₇ H ₃₂ N ₈ O ₂ |
| Molecular Weight | 500.6 g/mol |
| Purity | >98% |
| CAS | 955365-80-7 |
| Solubility | Soluble in DMSO at 70 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. <i>Aliquot to avoid multiple freeze/thaw cycles.</i> |
| Directions for Use | Adavosertib is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 999 µL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect. |
| Background References | 1. Hirai, H. et al. (2009) <i>Mol Cancer Ther</i> 8, 2992-3000. 2. Guertin, A.D. et al. (2013) <i>Mol Cancer Ther</i> 12, 1442-52. |

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