Revision 1

#69589 Store at -20C

Adavosertib

5 mg

Cell Signaling TECHNOLOGY®

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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

$C_{27}H_{32}N_8O_2$

Molecular Weight

500.6 g/mol

Purity

>98%

CAS

955365-80-7

Solubility

Soluble in DMSO at 70 mg/mL.

Storage

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

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) *Mol Cancer Ther* 8, 2992-3000.
2. Guertin, A.D. et al. (2013) *Mol Cancer Ther* 12, 1442-52.

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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