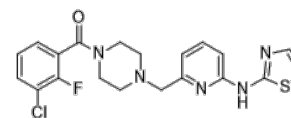


**Product Name** : MK-8745  
**Cat. No.** : PC-22868  
**CAS No.** : 885325-71-3  
**Molecular Formula** : C<sub>20</sub>H<sub>19</sub>ClFN<sub>5</sub>OS  
**Molecular Weight** : 431.91  
**Target** : Aurora Kinase  
**Solubility** : 10 mM in DMSO



CAS: 885325-71-3

## Biological Activity

MK-8745 (MK8745) a potent, specific Aurora kinase A (Aurora A, AURKA) inhibitor with IC<sub>50</sub> of 0.6 nM, induces apoptotic cell death in a p53-dependent manner.

MK-8745 induces cell cycle arrest at the G<sub>2</sub>/M phase with accumulation of tetraploid nuclei followed by cell death in non-Hodgkin lymphoma (NHL) cell lines.

Exposure of p53 wild-type cells to MK8745 resulted in the induction of p53 phosphorylation (ser15) and an increase in p53 protein expression.

## References

Chowdhury A, et al. Leuk Lymphoma. 2012 Mar;53(3):462-71.

Nair JS, et al. Cell Cycle. 2012 Feb 15;11(4):807-17.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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