

## **Data Sheet**

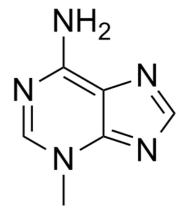
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**Product Name** : 3-Methyladenine

Cat. No.: PC-45597CAS No.: 5142-23-4Molecular Formula :  $C_6H_7N_5$ Molecular Weight : 149.1533Target : PI3K

Solubility :



## **Biological Activity**

- 3-Methyladenine (3-MA) is a selective PI3K inhibitor for Vps34 and PI3Ky with IC50 of 25 uM and 60 uM in HeLa cells.
- 3-Methyladenine (3-MA) blocks class I PI3K persistently, whereas its suppressive effect on class III PI3K is transient.
- 3-Methyladenine (3-MA) induces caspase-dependent cell death in HeLa cells, and the death occurs independently of the inhibition of autophagy.
- 3-Methyladenine (3-MA) also blocks **autophagosome** formation.

## References

Miller S, et al. *Autophagy*. 2010 Aug;6(6):805-7.

Hou H, et al. *PLoS One*. 2012, 7(4), e35665.

Wu YT, et al. *J Biol Chem*. 2010, 285(14), 10850-10861.

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

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