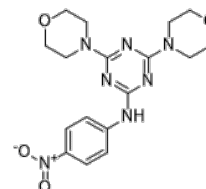


**Product Name** : MHY1485  
**Cat. No.** : PC-27759  
**CAS No.** : 326914-06-1  
**Molecular Formula** : C<sub>17</sub>H<sub>21</sub>N<sub>7</sub>O<sub>4</sub>  
**Molecular Weight** : 387.40  
**Target** : mTOR  
**Solubility** : 10 mM in DMSO



### Biological Activity

MHY1485 is a specific small molecule **mTOR activator**, targets the ATP domain of mTOR, inhibits autophagy with an mTOR activating effect.

MHY1485 inhibits starvation-induced colocalization between autophagosomes and lysosomes, leading to accumulation of LC3II protein and enlarged autophagosomes in rat hepatocytes and also induced the activity of mTOR.

MHY1485 activates mTOR and protects osteoblasts from dexamethasone.

MHY1485 ameliorates UV-induced skin cell damages via activating mTOR-Nrf2 signaling.

### References

Choi YJ, et al. *PLoS One*. 2012;7(8):e43418.

Hu XK, et al. *Mol Med Rep*. 2016 Oct;14(4):3662-8.

Yang B, et al. *Oncotarget*. 2017 Feb 21;8(8):12775-12783.

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

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