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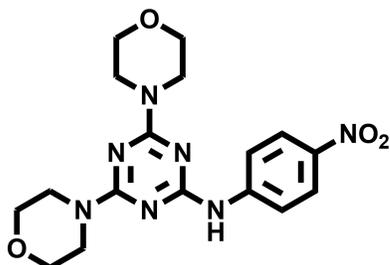
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mTOR Activator – MHY1485

Chemical Name: 4,6-dimorpholino-N-(4-nitrophenyl)-1,3,5-triazin-2-amine



Molecular Weight:	387.39
Formula:	C ₁₇ H ₂₁ N ₇ O ₄
Purity:	≥98%
CAS#:	326914-06-1
Solubility:	DMSO up to 10 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

MHY1485 is a novel potent, selective and cell-permeable mTOR activator. It suppressed the basal autophagic flux, and this inhibitory effect was clearly confirmed in cells under starvation, a strong physiological inducer of autophagy. It can increase cellular mTOR Ser2448 and downstream substrate 4E-BP Thr37/46 phosphorylation level in rat liver Ac2F cells (1 to 2 μM for 1 h). It affects culture viability only at much higher concentrations (by 20% after 24 h 20 μM treatment). MHY1485 induced cellular LC3-II accumulation in Ac2F is reported to be a result of autophagy inhibition due to reduced fusion between autophagosomes and lysosomes. MHY1485 serves as a novel inhibitor of autophagy with an mTOR activating effect.

How to Use:

In vitro: MHY1485 was used at 1-5 μM in vitro and cellular assays.

In vivo: n/a

Reference:

1. Choi YJ, et al. Inhibitory effect of mTOR activator MHY1485 on autophagy: suppression of lysosomal fusion. (2012) PLoS One. 7(8):e43418.

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