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## MHY1485

产品编号: D50854

CAS: 326914-06-1

分子式: C<sub>17</sub>H<sub>21</sub>N<sub>7</sub>O<sub>4</sub>

纯度: ≥98%

InChi: InChi=1S/C<sub>17</sub>H<sub>21</sub>N<sub>7</sub>O<sub>4</sub>/c25-24(26)14-3-1-13(2-4-14)18-15-19-16(22-5-9-27-10-6-22)21-17(20-15)23-7-11-28-12-8-23/h1-4H,5-12H<sub>2</sub>, (H,18,19,20,21)

InChi Key: MSSX BKQZZINCRI-UHFFFAOYSA-N

Smiles: [O-][N+](=O)C1C=CC(=CC=1)NC1N=C(N=C(N=1)N1CCOCC1)N1CCOCC1

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 10 mM

保存条件: Store in dry, dark place for one year.

产品介绍: 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.