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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : mTOR inhibitor-8                                                                                                                                                              |
| <b>Synonyms</b>          | : —                                                                                                                                                                             |
| <b>Cat No.</b>           | : M34829                                                                                                                                                                        |
| <b>CAS Number</b>        | : 2489196-70-3                                                                                                                                                                  |
| <b>Molecular Formula</b> | : C <sub>24</sub> H <sub>19</sub> ClN <sub>4</sub> O <sub>5</sub>                                                                                                               |
| <b>Formula Weight</b>    | : 446.95                                                                                                                                                                        |
| <b>Chemical Name</b>     | : —                                                                                                                                                                             |
| <b>Description</b>       | : mTOR inhibitor-8 is an mTOR inhibitor and autophagy inducer. mTOR inhibitor-8 inhibits the activity of mTOR via FKBP12 and induces autophagy of A549 human lung cancer cells. |
| <b>Pathway</b>           | : PI3K/Akt/mTOR signaling                                                                                                                                                       |
| <b>Target</b>            | : mTOR                                                                                                                                                                          |
| <b>Receptor</b>          | : mTOR   Autophagy                                                                                                                                                              |
| <b>Solubility</b>        | : In Vitro: ?DMSO : 25 mg/mL (55.93 mM; Ultrasonic )                                                                                                                            |
| <b>SMILES</b>            | : <chem>COc1ccc(cc1)C1CC(=NN1c1nc(cs1)-c1ccncc1)c1ccc(Cl)cc1</chem>                                                                                                             |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                       |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                     |
| <b>Reference</b>         | :                                                                                                                                                                               |

1. ZhaoMin Lin, et al. Discovery of new fluorescent thiazole-pyrazoline derivatives as autophagy inducers by inhibiting mTOR activity in A549 human lung cancer cells. Cell Death Dis. 2020 Jul 20;11(7):551.?