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## DATASHEET

MHY 1485

### Product overview

<b>Name</b>	MHY 1485
<b>Cat No</b>	HB7154
<b>Alternative names</b>	MHY1485
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	mTOR activator and autophagy inhibitor. Cell-permeable.

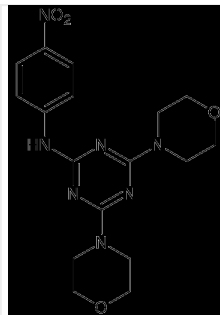
### Biological Data

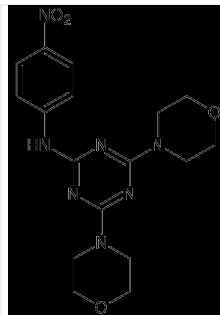
<b>Biological description</b>	mTOR activator and autophagy inhibitor. Cell permeable. Markedly increases the LC3II/LC3I ratio in a dose- and time- dependent manner by inhibition of the fusion between autophagosomes and lysosomes, and without increasing the autophagic flux. Less toxic than other autophagy inhibitors.
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### Solubility & Handling

<b>Solubility overview</b>	Soluble in DMSO (50 mM with gentle warming)
<b>Storage instructions</b>	+4 °C
<b>Storage of solutions</b>	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
<b>Shipping Conditions</b>	Stable for <b>ambient temperature</b> shipping. Follow storage instructions on receipt.
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	4,6-Bis(morpholin-4-yl)-N-(4-nitrophenyl)-1,3,5-triazin-2-amine
<b>Molecular Weight</b>	387.39
<b>Chemical structure</b>	



<b>Molecular Formula</b>	C <sub>17</sub> H <sub>21</sub> N <sub>7</sub> O <sub>4</sub>
<b>CAS Number</b>	326914-06-1
<b>PubChem identifier</b>	2834965
<b>SMILES</b>	[O-][N+](=O)c1ccc(cc1)Nc1nc(nc(n1)N1CCOCC1)N1CCOCC1
<b>InChi</b>	InChI=1S/C17H21N7O4/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,5-12H2,(H,18,19,20,21)

<b>Chemical name</b>	4,6-Bis(morpholin-4-yl)-N-(4-nitrophenyl)-1,3,5-triazin-2-amine
<b>InChiKey</b>	MSSXBKQZZINCRI-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00489974

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## References

### **MHY1485 activates mTOR and protects osteoblasts from dexamethasone.**

Zhao S et al (2016) Biochemical and biophysical research communications 481

**PubMedID** [27884298](#)

### **Inhibitory effect of mTOR activator MHY1485 on autophagy: suppression of lysosomal fusion.**

Choi YJ et al (2012) PloS one 7

**PubMedID** [22927967](#)

### **MHY1485 enhances X-irradiation-induced apoptosis and senescence in tumor cells.**

Sun L et al (2021) Journal of radiation research 62

**PubMedID** [34265852](#)

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