Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

MHY 1485

Product overview

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

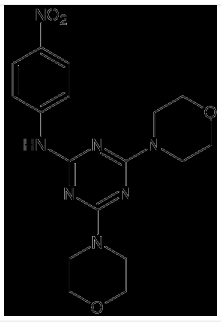
Biological Data

Biological description	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.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (50 mM with gentle warming)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	4,6-Bis(morpholin-4-yl)-N-(4-nitrophenyl)-1,3,5-triazin-2-amine
Molecular Weight	387.39
Chemical structure	
Molecular Formula	$C_{17}H_{21}N_7O_4$
CAS Number	326914-06-1
PubChem identifier	2834965
SMILES	[O-][N+](=O)c1ccc(cc1)Nc1nc(nc(n1)N1CCOCC1)N1CCOCC1
InChi	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)
InChiKey	MSSXBKQZZINCRI-UHFFFAOYSA-N
MDL number	MFCD00489974

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