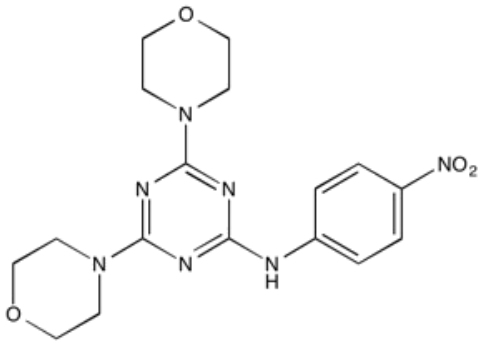
Catalog # 10-1604

MHY1485

CAS# 326914-06-1

4,6-Di-4-morpholinyl-N-(4-nitrophenyl)-1,3,5-triazin-2-amine

Lot # S103111



mTOR activator. Suppresses autophagy by inhibiting the fusion of autophagosomes with lysosomes leading to the accumulation of enlarged autophagosomes.[1] Increases ovarian follicle development.[2] Displays cellular protective effects from cytotoxic doses of dexamethasone[3] or UV radiation[4]. A useful tool for probing the cellular role of mTOR.[5] Cell permeable.

1) Choy *et al.* (2012), *Inhibitory effect of mTOR activator MHY1485 on autophagy: suppression of lysosomal fusion*; PLoS One, **7(8)** e43418
2) Cheng *et al*. (2015), *Promotion of ovarian follicle growth following mTOR activation: synergistic effects of AKT stimulators*; PLoS One, **10(2)** e0117769
3) Zhao *et al*. (2016), *MHY1485 activates mTOR and protects osteoblasts from dexamethasone*; Biochem. Biophys. Res. Commun., **481** 212
4) Yang *et al*. (2017), *MHY1485 ameliorates UV-induced skin cell damages via activating mTOR-Nrf2 signaling* Oncotarget, **8** 12775
5) Li and Siragy (2015), *(Pro)renin receptor regulates autophagy and apoptosis in podocytes exposed to high glucose*; J. Physiol. Endocrinol. Metab., **309** E302

PHYSICAL DATA

Molecular Weight:	387.39
Molecular Formula:	$C_{17}H_{21}N_7O_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 20 mg/ml) or in DMF (up to 10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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