



LKT Laboratories, Inc.

MHY-1485

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## Product Information

Product ID M3196

CAS No. 326914-06-1

### Chemical Name

### Synonym

Formula  $C_{17}H_{21}N_7O_4$

Formula Wt. 387.4

### Melting Point

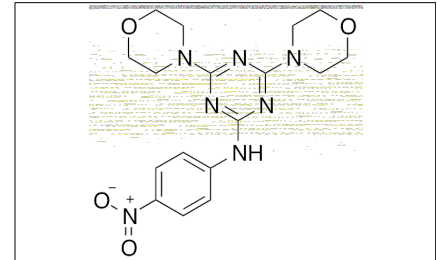
Purity  $\geq 98\%$

Solubility DMSO 4 mg/mL  
Water Insoluble  
Ethanol Insoluble

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** MHY-1485 is an activator of mTOR that displays potential as a fertility treatment. In vivo, MHY-1485 increases ovarian explant weights, follicle development, and production of viable, mature oocytes. This compound also inhibits autophagy by preventing fusion of autophagosomes and lysosomes in vitro.



**Bulk quantities available upon request**

Product ID	Size
M3196	5 mg
M3196	25 mg

**References** Li C, Siragy HM. (Pro)renin receptor regulates autophagy and apoptosis in podocytes exposed to high glucose. *Am J Physiol Endocrinol Metab.* 2015 Jun 16. [Epub ahead of print]. PMID: 26081285.

Cheng Y, Kim J, Li XX, et al. Promotion of ovarian follicle growth following mTOR activation: synergistic effects of AKT stimulators. *PLoS One.* 2015 Feb 24;10(2):e0117769. PMID: 25710488.

Choi YJ, Park YJ, Park JY, et al. Inhibitory effect of mTOR activator MHY1485 on autophagy: suppression of lysosomal fusion. *PLoS One.* 2012;7(8):e43418. Erratum in: *PLoS One.* 2013;8(1). PMID: 22927967.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.