

**Product Name:** XMU MP 1

**Catalog No.:** 6482

**Batch No.:** 2

CAS Number: 2061980-01-4

IUPAC Name: 4-[(6,10-Dihydro-5,10-dimethyl-6-oxo-5H-pyrimido[5,4-b]thieno[3,2-e][1,4]diazepin-2-yl)amino]benzenesulfonamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>6</sub>O<sub>3</sub>S<sub>2</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

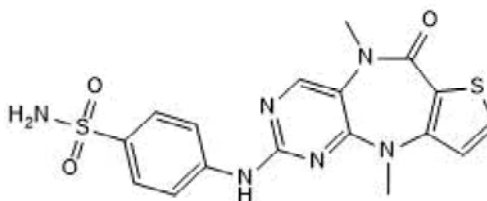
**Batch Molecular Weight:** 429.99

**Physical Appearance:** Brown solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	47.49	4.1	19.54
Found	47.52	3.95	19.57

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Potent and selective ATP-competitive mammalian sterile 20-like kinase (MST) 1/2 inhibitor (IC<sub>50</sub> values are 38.1 and 71.1 nM for MST2 and MST1, respectively). Enhances activity of downstream YAP in vitro. Augments mouse intestinal repair and promotes liver repair and regeneration in a mouse model of acute and chronic liver injury. Orally bioavailable.

**Physical and Chemical Properties:**

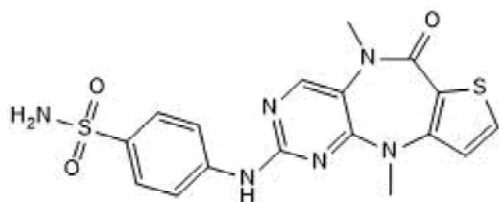
Batch Molecular Formula: C<sub>17</sub>H<sub>16</sub>N<sub>6</sub>O<sub>3</sub>S<sub>2</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 429.99

Physical Appearance: Brown solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold under license from Dana-Farber Cancer Institute.

**References:**

**Crunkhorn et al** (2016) Regenerative medicine: Inhibiting Hippo repairs tissue. *Nat.Rev.Drug Discov.* **15** 678. PMID: 27681796.

**Fan et al** (2016) Pharmacological targeting of kinases MST1 and MST2 augments tissue repair and regeneration. *Sci.Transl.Med.* **8** 352. PMID: 27535619.

**Ray et al** (2016) Therapy: Targeting liver tissue repair and regeneration. *Nat.Rev.Gastroenterol.Hepatol.* **13** 559. PMID: 27605063.

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