

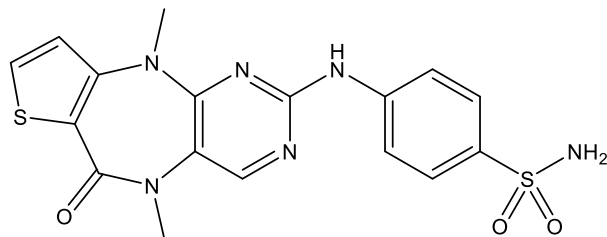
Catalog # 10-4294

XMU-MP-1

CAS# 2061980-01-4

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

Lot # FBS4011



XMU-MP-1 is a potent, reversible, and selective inhibitor of the HIPPO pathway kinases MST1 and MST2 (IC_{50} s = 71 nM and 38 nM respectively).¹ It promoted liver repair/regeneration in mice and attenuated acetaminophen-induced liver injury. In a subarachnoid hemorrhage mouse model, XMU-MP-1 alleviated neurological deficits, brain edema, neuroinflammation, and white matter injury.² XMU-MP-1 was also cardioprotective in mice with transverse aortic constriction³ and against ischemia/reperfusion injury⁴.

- 1) Fan *et al.* (2016), *Pharmacological targeting of kinases MST1 and MST2 augments tissue repair and regeneration*; *Sci. Transl. Med.* **8** 352ra108
- 2) Qu *et al.* (2018); *MST1 Suppression Reduces Early Brain Injury by Inhibiting the NF- κ B/MMP-9 Pathway after Subarachnoid Hemorrhage in Mice*, *Behav. Neurol.*, **2018** 6470957
- 3) Triastuti *et al.* (2019), *Pharmacological inhibition of Hippo pathway, with the novel kinase inhibitor XMU-MP-1, protects the heart against adverse effects during pressure overload*; *Br. J. Pharmacol.* **176** 3956
- 4) Liu *et al.* (2022), *XMU-MP-1 protects heart from ischemia/reperfusion injury in mice through modulating Mst1/AMPK pathway*; *Eur. J. Pharmacol.* **919** 174801

PHYSICAL DATA

Molecular Weight:	416.47
Molecular Formula:	C ₁₇ H ₁₆ N ₆ O ₃ S ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (15 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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