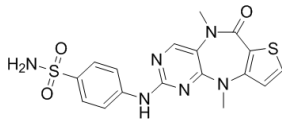


|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : XMU-MP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>          | : XMU-MP-1; XMU-MP1; XMU-MP 1; XMUMP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cat No.</b>           | : M13204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>CAS Number</b>        | : 2061980-01-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Formula</b> | : C <sub>17</sub> H <sub>16</sub> N <sub>6</sub> O <sub>3</sub> S <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formula Weight</b>    | : 416.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chemical Name</b>     | : Benzenesulfonamide, 4-[(6,10-dihydro-5,10-dimethyl-6-oxo-5H-pyrimido[5,4-b]thieno[3,2-e][1,4]diazepin-2-yl)amino]-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>       |  <p>A potent, selective, and ATP-competitive inhibitor of the mammalian Hippo orthologs, Sterile 20-like kinases MST1 and MST2 with IC<sub>50</sub> of 71.1 nM and 38.1 nM, respectively; has a selectivity score of 0.05 against a panel of 468 diverse kinases; inhibits phosphorylation of MOB1 in a dose-dependent manner, activates the downstream effector Yes-associated protein (YAP) and promotes cell growth; attenuates acetaminophen-induced liver injury, promotes liver repair and regeneration in mice; a valuable chemical probe to study the Hippo signaling pathway</p> |
| <b>Pathway</b>           | : Wnt/Notch/Hedgehog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target</b>            | : Hippo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Receptor</b>          | : MST1;MST2;MST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Solubility</b>        | : DMSO: ≥ 30 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SMILES</b>            | : O=S(C1=CC=C(NC2=NC=C3C(N(C)C(C=CS4)=C4C(N3C)=O)=N2)C=C1)(N)=O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

1. Fan F, et al. Sci Transl Med. 2016 Aug 17;8(352):352ra108. 2. Liu Z, et al. Adv Mater. 2017 Oct 11. doi: 10.1002/adma.201703393.