

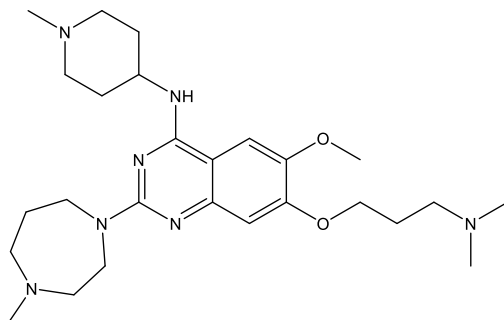
**Catalog # 10-5216**

**UNC0224**

1197196-48-7

7-[3-(Dimethylamino)propoxy]-2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6-methoxy-N-(1-methyl-4-piperidiny)-4-quinazolinamine

Lot # R110773



Potent inhibitor of histone methyltransferases G9a / EHMT2 (IC<sub>50</sub> = 15 nM) and GLP / EHMT1 (IC<sub>50</sub> ~ 39 nM) but not SET7/9 and SET8.<sup>1-3</sup> Has been employed, as part of a small molecule cocktail, to reprogram somatic cells to pluripotent stem cells.<sup>4</sup>

- 1) Liu *et al.* (2009), *Discovery of a 2,4-diamino-7-aminoalkoxyquinazoline as a potent and selective inhibitor of histone lysine methyltransferase G9a*; J. Med. Chem., **52** 7950
- 2) Liu *et al.* (2010), *Protein lysine methyltransferase G9a inhibitors: design, synthesis, and structure activity relationships of 2,4-diamino-7-aminoalkoxyquinazolines*; J. Med. Chem., **53** 5844
- 3) Leenders *et al.* (2019), *Novel SAR for quinazoline inhibitors of EHMT1 and EHMT2*; Bioorg. Med. Chem. Lett., **29** 2516
- 4) Guan *et al.* (2022), *Chemical reprogramming of human somatic cells to pluripotent stem cells*; Nature, **605** 325

**PHYSICAL DATA**

Molecular Weight: 485.68  
Molecular Formula: C<sub>26</sub>H<sub>43</sub>N<sub>7</sub>O<sub>2</sub>  
Purity: >98% by TLC  
NMR: (Conforms)  
Solubility: DMSO (50 mg/ml with warming)  
Physical Description: White to Off-white solid  
Storage and Stability: Store as supplied desiccated 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.**