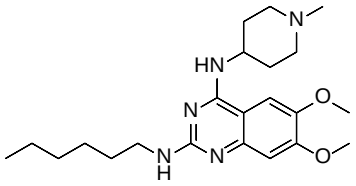
Product data sheet

MedKoo Cat#: 530508 Name: MS012 CAS: 2089617-83-2 (free base) Chemical Formula: $C_{22}H_{35}N_5O_2$ Exact Mass: 401.2791 Molecular Weight: 401.555	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
MS012 is a Potent and Selective Inhibitors for G9a-Like Protein (GLP) Lysine Methyltransferase. MS012 exhibited stronger binding affinity to GLP (Kd = 46 ± 15 nM) than G9a (Kd = 610 ± 68 nM). MS012 was 13-fold selective for GLP over G9a. G9a-like protein (GLP) and G9a are highly homologous protein lysine methyltransferases (PKMTs) sharing approximately 80% sequence identity in their catalytic domains. GLP and G9a form a heterodimer complex and catalyze mono- and dimethylation of histone H3 lysine 9 and nonhistone substrates.

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	**1 mg**	**5 mg**	**10 mg**
1 mM	2.49 mL	12.45 mL	24.90 mL
5 mM	0.50 mL	2.49 mL	4.98 mL
10 mM	0.25 mL	1.25 mL	2.49 mL
50 mM	0.05 mL	0.25 mL	0.50 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study
TBD

In vivo study
TBD

7. Bioactivity
Biological target:
MS012 is a Potent and Selective Inhibitors for G9a-Like Protein (GLP) Lysine Methyltransferase.

In vitro activity
TBD

In vivo activity
TBD

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Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.