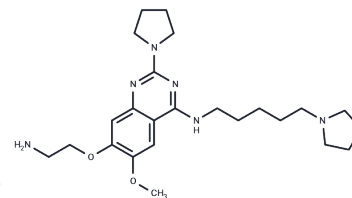


MS2177

Chemical Properties

CAS No. : T28114
Formula: C₂₄H₃₈N₆O₂
Molecular Weight: 442.61
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	MS2177 is a potent and selective inhibitor of SETD8, the only methyltransferase known to catalyze monomethylation of histone H4 lysine 20 (H4K20). MS2177 has an in vitro IC ₅₀ of 1.9 μ M (σ = 1.05 μ M, n = 4) in ascitillation proximity assay. Binding of MS2177 to SETD8 was confirmed by isothermal titration calorimetry (ITC), having a K _D of 1.3 μ M.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2593 mL	11.2966 mL	22.5933 mL
5 mM	0.4519 mL	2.2593 mL	4.5187 mL
10 mM	0.2259 mL	1.1297 mL	2.2593 mL
50 mM	0.0452 mL	0.2259 mL	0.4519 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Structure-Based Design of a Covalent Inhibitor of the SET Domain-Containing Protein 8 (SETD8) Lysine Methyltransferase Kyle V. Butler, Anqi Ma, Wenyu Yu, Fengling Li, Wolfram Tempel, Nicolas Babault, Fabio Pittella-

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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