PRMT5-IN-1 hydrochloride

| Cat. No.: | HY-126256A | |
|--------------------|--|------------|
| Molecular Formula: | $C_{19}H_{20}Cl_2N_4O_5$ | |
| Molecular Weight: | 455.29 | QH |
| Target: | Histone Methyltransferase | N In. Ohn |
| Pathway: | Epigenetics | N HO OH CI |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) | HO H-CI |

SOLVENT & SOLUBILITY

| | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|-----------------------------|-------------------------------|-----------|------------|------------|
| Preparing Stock Solution | 1 mM | 2.1964 mL | 10.9820 mL | 21.9640 mL |
| | 5 mM | 0.4393 mL | 2.1964 mL | 4.3928 mL |
| | 10 mM | 0.2196 mL | 1.0982 mL | 2.1964 mL |

| DIOLOGICAL ACTIV | | |
|---------------------------|---|--|
| Description | PRMT5 IN-1 hydrochloride (compound 9), a hemiaminal, is a potent, selective protein arginine methyltransferase 5 (PRMT5) inhibitor with an IC ₅₀ of 11 nM for PRMT5/MEP50. PRMT5 IN-1 hydrochloride can be converted to aldehydes and react with C449 to form covalent adducts under physiological conditions ^[1] . | |
| IC ₅₀ & Target | IC50: 11 nM (PRMT5/MEP50) | [1] |
| In Vitro | PRMT5 IN-1 (compound 9; 0- rapidly with a K_{inact} of 0.068 PRMT5 IN-1 (0-1000 nM; 3 d; 0.012 μ M ^[1] . PRMT5 IN-1 (0-1 μ M; 10 d; Gr 50 value of 0.06 μ M ^[1] . MCE has not independently Cell Viability Assay ^[1] Cell Line: | -500 nM) hydrochlorideinhibits the PRMT5/MEP50 complex [K _{inact} /K _I =1.2×10 ⁵ M ⁻¹ min ⁻¹] very ³ min ⁻¹ and a good binding affinity (K _I =55 nM) ^[1] . Granta-519 cells) hydrochloride inhibits the expression of cellular sDMA with an IC ₅₀ value of ranta-519 cells) hydrochloride inhibits cell proliferation in a dose-dependent manner with an IC confirmed the accuracy of these methods. They are for reference only. Granta-519 cells |
| | Cell Line: | Granta-519 cells |

Product Data Sheet



| Concentration: | 0, 0.0001524, 0.000457, 0.001372, 0.004115, 0.012346, 0.037037, 0.111111, 0.333333 and 1 M | |
|--------------------------------------|---|--|
| Incubation Time: | 10 days | |
| Result: | Inhibited cell proliferative, in which cells died on day 10 at high concentrations (0.3 and 1 µ M). | |
| Western Blot Analysis ^[1] | | |
| Cell Line: | Granta-519 cells | |
| Concentration: | 0, 0.05, 0.15, 0.46, 1.37, 4, 12, 37, 111, 333, 1000 nM | |
| Incubation Time: | 3 days | |
| | | |

REFERENCES

[1]. Lin H, et, al. Discovery of Potent and Selective Covalent Protein Arginine Methyltransferase 5 (PRMT5) Inhibitors. ACS Med Chem Lett. 2019 May 22;10(7):1033-1038.

Caution: Product has not been fully validated for medical applications. For research use only.

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