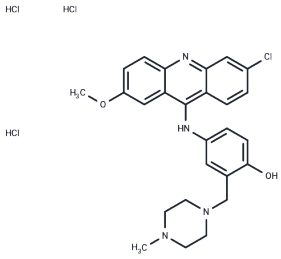
Data Sheet (Cat.No.T38471)

TargetMol

HM03 trihydrochloride

Chemical Properties



CAS No. : 1082532-95-3

Formula: C26H30Cl4N4O2

Molecular Weight: 572.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	HM03 trihydrochloride, a potent and selective inhibitor of HSPA5 (also known as Bip or Grp78), exhibits anticancer activity.
Targets(IC50)	Others,HSP
In vitro	HM03 trihydrochloride, at concentrations ranging from 0.1-50 μM and applied over 72 hours, demonstrates significant inhibitory activity, achieving over 50% inhibition at a 25 μM concentration in HCT116 cells[1]. It preferentially interacts with HSPA5 and HSPA9, forming more binding interactions compared to other HSP70 proteins. This compound has shown promising results in assays evaluating cancer cell viability and tumor inhibition[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7472 mL	8.7359 mL	17.4718 mL
5 mM	0.3494 mL	1.7472 mL	3.4944 mL
10 mM	0.1747 mL	0.8736 mL	1.7472 mL
50 mM	0.0349 mL	0.1747 mL	0.3494 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huang M, et al. Structure-based design of HSPA5 inhibitors: from peptide to small molecule inhibitors. Bioorg Med Chem Lett. 2013;23(10):3044-3050.

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