

CYT296

## Chemical Properties

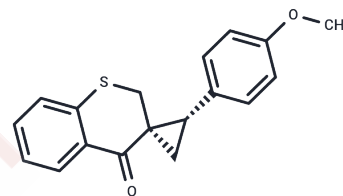
CAS No. : 1799392-31-6

Formula: C<sub>18</sub>H<sub>16</sub>O<sub>2</sub>S

Molecular Weight: 296.38

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	CYT296 is a chromatin de-condensation agent that enhances the efficiency of induced pluripotent stem cell (iPSC) generation mediated by defined factors (OSKM) and promotes an open chromatin state in Mouse Embryonic Fibroblast (MEFs), aiding in somatic cell reprogramming. This compound has potential applications in cell replacement therapies and drug screening research [1].
Targets(IC50)	Others
In vitro	CYT296 (250nM, 72 hours) alters the chromatin architecture in MEFs to facilitate Yamanaka factor accessibility and enhance the reprogramming process [1]. Additionally, CYT296 (250nM, 72 hours) as a small-molecule inhibitor disrupts heterochromatin assembly in MEFs, significantly improving the generation of iPSCs [1].
In vivo	CYT296, administered subcutaneously in a single dose (皮下注射, 一次), effectively induced pluripotency [1] in iPSCs derived from NOD-SCID mice, with tests conducted on 10-15 4F- and 2F-iPSC clones.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.374 mL	16.8702 mL	33.7405 mL
5 mM	0.6748 mL	3.374 mL	6.7481 mL
10 mM	0.3374 mL	1.687 mL	3.374 mL
50 mM	0.0675 mL	0.3374 mL	0.6748 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481