

Product Data Sheet

Product Name: CYT296

Cat. No.: GC70841

Chemical Properties

Cas. No. 1799392-31-6

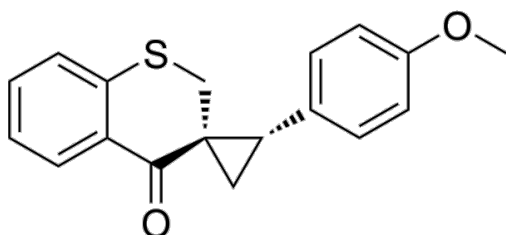
Formula $C_{18}H_{16}O_2S$ M.Wt 296.38

Solubility DMSO : 100 mg/mL (337.40 mM; ultrasonic and warming and heat to 80°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO) Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



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

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Background

CYT296 is a target chromatin de-condensation compound. CYT296 can improve the induction of induced pluripotent stem cell (iPSCs) mediated by defined factors (OSKM) and induce an open chromatin state in Mouse Embryonic Fibroblast (MEFs) to facilitate somatic cell reprogramming. CYT296 can be used for cell replacement therapies and drug screening research.

CYT296 (250nM, 72 h) changes the MEF chromatin and allows easier access of Yamanaka factors and facilitates the reprogramming process^[1].

CYT296 (250nM, 72 h) block heterochromatin assembly of MEFs to improve the generation of iPSC^[1].

CYT296 (10-15 4F- and 2F -iPSC clones for subcutaneous injection, once) generates the iPSCs are pluripotent in the NOD-SCID mice^[1].

References:

[1]. Wei X, et al. Small molecule compound induces chromatin de-condensation and facilitates induced pluripotent stem cell generation. J Mol Cell Biol. 2014 Oct;6(5):409-20.

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