

Product Data Sheet

Product Name: Maytansine

Cat. No.: GC62205

Chemical Properties

Cas. No. 35846-53-8

Formula $C_{34}H_{46}ClN_3O_{10}$

M.Wt 692.2

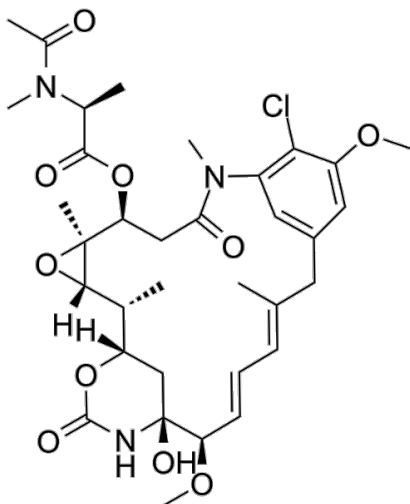
Solubility

Storage Store at -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



Background

Maytansine is a highly potent microtubule-targeted compound that induces mitotic arrest and kills tumor cells at subnanomolar concentrations[1].

Maytansine, at 6×10^{-8} M, irreversibly inhibits cell division in eggs of sea urchins and clams. Maytansine causes the disappearance of a mitotic apparatus or prevents one from forming if added at early stages. Maytansine inhibits in vitro polymerization of tubulin[2].

[1]. Lopus M, et al. Maytansine and cellular metabolites of antibody-maytansinoid conjugates strongly suppress microtubule dynamics by binding to microtubules. Mol Cancer Ther. 2010;9(10):2689-2699.

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

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[2]. Remillard S, et al. Antimitotic activity of the potent tumor inhibitor maytansine. Science. 1975;189(4207):1002-1005.

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