

Product Data Sheet

Product Name: EAD1 trihydrochloride

Cat. No.: GC78992

Chemical Properties

Cas. No.

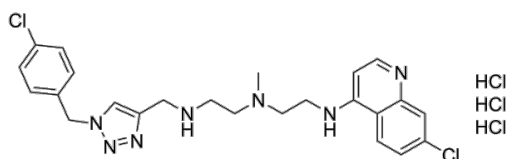
Formula $C_{24}H_{30}Cl_5N_7$ M.Wt 593.81

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

EAD1 trihydrochloride is a Chloroquine analog with anticancer activity. EAD1 trihydrochloride blocks autophagy, leading to the intracellular accumulation of autophagosome-related proteins LC3-II and p62. EAD1 trihydrochloride induces cancer cell apoptosis and inhibits cancer cell proliferation. EAD1 trihydrochloride can be used in the research of lung cancer and pancreatic cancer [1].

In Vitro, EAD1 (compound 3h) (72 h) trihydrochloride potently inhibits the proliferation of H460,

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HCC827 and BxPC3 cancer cells at 72 h, with IC₅₀ values of 11 μ M, 7.6 μ M and 5.8 μ M, respectively^[1]. EAD1 (6.5-100 μ M; 24 h) trihydrochloride potently inhibits colony formation of H460 non-small cell lung cancer cells^[1]. EAD1 (5-75 μ M; 24 h) trihydrochloride induces concentration-dependent apoptosis in H460 non-small cell lung cancer (NSCLC) cells^[1]. EAD1 (25-50 μ M; 6 h) trihydrochloride enhances the expression of punctate LC3 in H3122 non-small cell lung cancer cells^[1]. EAD1 (1-25 μ M, 10 μ M; 2-72 h, 24 h) trihydrochloride induces concentration- and time-dependent accumulation of autophagy-related proteins LC3-II and p62 in H460 non-small cell lung cancer (NSCLC) cells^[1].

References:

[1]. Lars Ulrik Nordstrøm, et al. Discovery of Autophagy Inhibitors With Antiproliferative Activity in Lung and Pancreatic Cancer Cells. ACS Med Chem Lett. 2015 Jan 8;6(2):134-9.

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