

## CTCE 9908 acetate

## Chemical Properties

CAS No. :

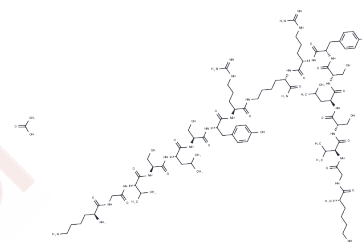
Formula: C88H151N27O25

Molecular Weight: 1987.31

Keep away from moisture

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	CTCE 9908 acetate is an antagonist of CXCR4 and inhibits migration in CXCR4-expressing ovarian cancer cells.
Targets(IC50)	CXCR
In vitro	CTCE 9908 acetate inhibited ovarian cancer cell migration to CXCL12, but on longer incubation, caused cell death in CXCR4-positive cells. CTCE 9908 acetate did not cause apoptosis or cellular senescence, but induced multinucleation, G(2)-M arrest, and abnormal mitosis in ovarian cancer cells. CTCE 9908 acetate deregulated DNA damage checkpoint proteins and spindle assembly checkpoint proteins at G(2)-M phases of the cell cycle. Combination treatment of CTCE 9908 acetate and the drug paclitaxel led to an additive cytotoxicity that also involved mitotic catastrophe[1].
In vivo	In dosing experiment of CTCE 9908 acetate in the PyMT mouse model, increasing doses of CTCE 9908 acetate alone slowed the rate of tumor growth, with a 45% inhibition of primary tumor growth at 3.5 weeks of treatment with 50 mg/kg of CTCE 9908 acetate ( $p = 0.005$ ). Expression levels of VEGF were also found to be reduced by 42% with CTCE 9908 acetate ( $p = 0.01$ ). In combination with docetaxel, CTCE 9908 acetate administration decreased tumor volume by 38% ( $p = 0.02$ ), an effect that was greater than that observed with docetaxel alone. In combination with DC101, CTCE 9908 acetate also demonstrated an enhanced effect compared to DC101 alone, with a 37% decrease in primary tumor volume ( $p = 0.01$ ) and a 75% reduction in distant metastasis ( $p = 0.009$ ). In combination with docetaxel or an anti-angiogenic agent, the anti-tumor and anti-metastatic effects of CTCE 9908 acetate were markedly enhanced[2].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.5032 mL	2.516 mL	5.0319 mL
5 mM	0.1006 mL	0.5032 mL	1.0064 mL
10 mM	0.0503 mL	0.2516 mL	0.5032 mL
50 mM	0.0101 mL	0.0503 mL	0.1006 mL

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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.

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