# Data Sheet (Cat.No.T10949)

TargetMol

## D8-MMAF

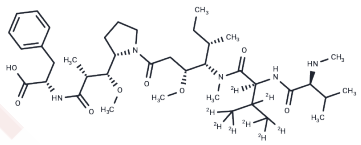
### Chemical Properties

CAS No. :

Formula: C39H57D8N5O8

Molecular Weight: 740.01

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 | D8-MMAF is a microtubule destroyer, deuterated form of MMAF (T3256-GMP). |
| In vitro | MMAF showed cytotoxicity in vitro against a group of cell lines. Karpas 299, H3396, 786-O and Caki-1 have IC50 values of 119, 105, 257 and 200 nM, respectively. Targeted MMAF is more effective than free drug, and the cAC10 conjugate of MMAF shows significant activity. On a molar basis, the average potency of cAC10-L1-MMAF4 is more than 2200 times higher than free MMAF, and it is active in all tested CD30 positive cell |
| In vivo | The maximum tolerated dose of MMAF (> 16 mg / kg) mice is much higher than that of MMAE (1 mg / kg). The MTD of cAC10-L1-MMAF4 is 50 mg / kg in mice and 15 mg / kg in rats. The corresponding cAC10-L4-MMAF4 ADC is much less toxic, with MTD greater than 150 mg / kg and 90 mg / kg in mice and rats, respectively. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.3513 mL | 6.7567 mL | 13.5133 mL |
| 5 mM | 0.2703 mL | 1.3513 mL | 2.7027 mL |
| 10 mM | 0.1351 mL | 0.6757 mL | 1.3513 mL |
| 50 mM | 0.027 mL | 0.1351 mL | 0.2703 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.

Reference

Doronina SO, et al. Enhanced activity of monomethylauristatin F through monoclonal antibody delivery: effects of linker technology on efficacy and toxicity. Bioconjug Chem. 2006 Jan-Feb;17(1):114-24.

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