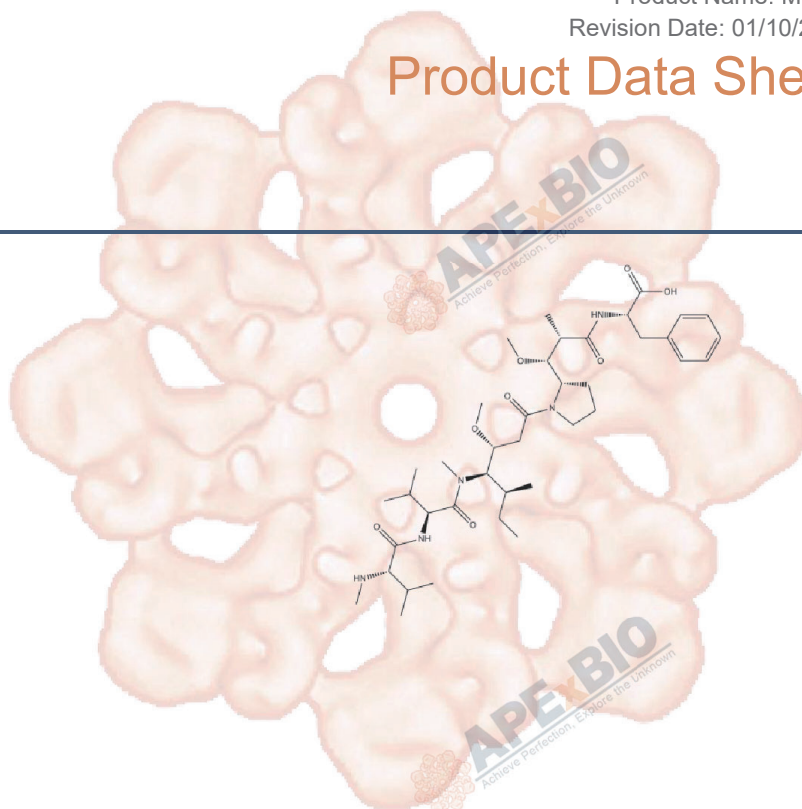


Product Data Sheet

MMAF

Cat. No.: B3270
CAS No.: 745017-94-1
Formula: C₃₉H₆₅N₅O₈
M.Wt: 731.96
Synonyms:
Target:
Pathway:
Storage: Store at -20°C



Solvent & Solubility

≥36.6 mg/mL in DMSO; ≥2.62 mg/mL in H₂O with gentle warming and ultrasonic; ≥17.2 mg/mL in EtOH

In Vitro

	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
Preparing Stock Solutions		1 mM	1.3662 mL	6.8310 mL	13.6619 mL
		5 mM	0.2732 mL	1.3662 mL	2.7324 mL
		10 mM	0.1366 mL	0.6831 mL	1.3662 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

Anti-mitotic/anti-tubulin/antineoplastic agent

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: 786-O, Caki-1 and L428 cells

Preparation method: The solubility of this compound in DMSO is > 36.6 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.

Reacting conditions: 96 hrs

In Vivo	Applications:	In 786-O, Caki-1 and L428 cells, 1F6 mAb attached by MMAF potentially inhibited cell viability, with the IC50 values of 10 ng/mL, 8 ng/mL and 123 ng/mL, respectively.
	Animal experiment	
	Animal models:	Mice with 786-O RCC tumor xenografts
	Dosage form:	1 or 3 mg/kg; i.p.
	Applications:	In mice with 786-O RCC tumor xenografts, 1F6-Val-Cit-PABC-MMAF was at least 3-fold less potent than AMAsn-(D)Lys-1F6 and AW-Met-(D)Lys-1F6. Besides, compared with AMAsn-(D)Lys-1F6 and AW-Met-(D)Lys-1F6, 1F6-Val-Cit-PABC-MMAF showed lower tolerability.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Doronina SO, Bovee TD, Meyer DW, Miyamoto JB, Anderson ME, Morris-Tilden CA, Senter PD. Novel peptide linkers for highly potent antibody-auristatin conjugate. Bioconjug Chem. 2008 Oct;19(10):1960-3.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX-BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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