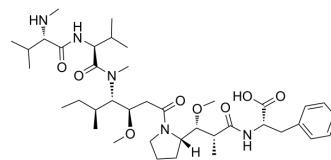


MMAF (GMP)

Cat. No.:	HY-15579G
CAS No.:	745017-94-1
Molecular Formula:	C ₃₉ H ₆₅ N ₅ O ₈
Molecular Weight:	731.96
Target:	Microtubule/Tubulin; ADC Cytotoxin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MMAF (Monomethylauristatin F) GMP is a GMP grade MMAF (HY-15579). MMAF (Monomethylauristatin F) is a potent tubulin polymerization inhibitor and is used as a antitumor agent. MMAF (Monomethylauristatin F) is widely used as a cytotoxic component of antibody-drug conjugates (ADCs) such as vorsetuzumab mafodotin and SGN-CD19A ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 119 nM (Cytotoxicity, Karpas 299 cell), 105 nM (Cytotoxicity, H3396 cell), 257 nM (Cytotoxicity, 786-O cell), 200 nM (Cytotoxicity, Caki-1, cell) ^[4]

CUSTOMER VALIDATION

- J Control Release. 2018 May 10;277:48-56.
- Mol Ther Nucleic Acids. 2018 Mar 2;10:227-236.
- Mol Cancer Ther. 2023 Jan 31;MCT-22-0440.
- Target Oncol. 2019 Oct;14(5):577-590.
- Research Square Print. 2023 Jan 6th.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. 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.
- [2]. Lee JW, et al. EphA2 targeted chemotherapy using an antibody drug conjugate in endometrial carcinoma. *Clin Cancer Res.* 2010 May 1;16(9):2562-70.
- [3]. Lee JJ, et al. Enzymatic prenylation and oxime ligation for the synthesis of stable and homogeneous protein-drug conjugates for targeted therapy. *Angew Chem Int Ed Engl.* 2015 Oct 5;54(41):12020-4.
- [4]. Kim EG, et al. Strategies and Advancement in Antibody-Drug Conjugate Optimization for Targeted Cancer Therapeutics.

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

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