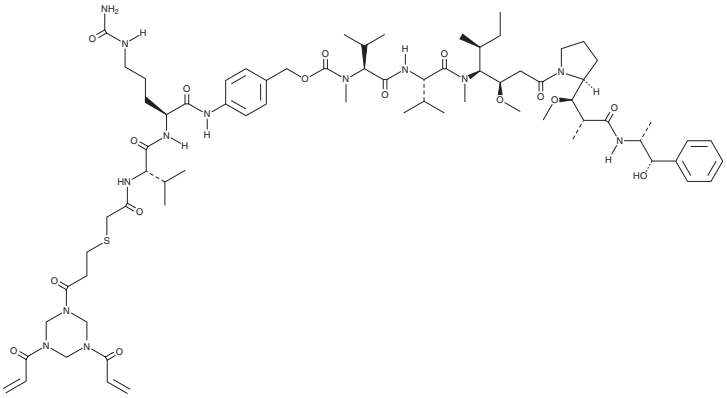
PRODUCT INFORMATION

Py-MAA-Val-Cit-PAB-MMAE

Item No. 46520



CAS Registry No.:	2247398-68-9
Formal Name:	N-methyl-N-[[[4-[[N-[2-[[3-oxo-3-[tetrahydro-3,5-*bis*(1-oxo-2-propen-1-yl)-1,3,5-triazin-1(2H)-yl]propyl]thio]acetyl]-L-valyl-N^5-(aminocarbonyl)-L-ornithyl]amino]phenyl]methoxy]carbonyl]-L-valyl-N-[(1S,2R)-4-[(2S)-2-[(1R,2R)-3-[[(1R,2S)-2-hydroxy-1-methyl-3-phenylpropyl]amino]-1-methoxy-2-methyl-3-oxopropyl]-1-pyrrolidinyl]-2-methoxy-1-[(1S)-1-methylpropyl]-4-oxobutyl]-N-methyl-L-valinamide
Synonym:	Py-MAA-Val-Cit-PAB-Monomethyl Auristatin E
MF:	$C_{72}H_{111}N_{13}O_{16}S$
FW:	1,446.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Py-MAA-Val-Cit-PAB-MMAE is supplied as a solid. A stock solution may be made by dissolving the Py-MAA-Val-Cit-PAB-MMAE in the solvent of choice, which should be purged with an inert gas. Py-MAA-Val-Cit-PAB-MMAE is sparingly soluble (1-10 mg/ml) in methanol.

Description

Py-MAA-Val-Cit-PAB-MMAE is a drug-linker molecule that has been used in the synthesis of the antibody-drug conjugate (ADC) zapacine-3a, which has anticancer activity *in vitro* and in mice.[1] It contains a cathepsin B-cleavable Val-Cit dipeptide, a *p*-aminobenzyl spacer, and the antimitotic compound monomethyl auristatin E (MMAE; Item No. 16267) as the cytotoxic payload.

Reference

1. Zheng, D., Zhang, S., Pan, O., *et al.* Anti-TRAILR2 antibody-toxin-conjugate and pharmaceutical use thereof in anti-tumor therapy. *Obio Technology (Shanghai) Corp., Ltd.* **WO2019157973A1,** (2019).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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