Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

VcMMAE

Catalog No: tcsc1242

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
646502-53-6

Formula:
$C_{68}H_{105}N_{11}O_{15}$

Pathway:
Cell Cycle/DNA Damage;Cytoskeleton;Antibody-drug Conjugate/ADC Related

Target:
Microtubule/Tubulin;Microtubule/Tubulin;Drug-Linker Conjugates for ADC

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 54 mg/mL (41.01 mM)

Alternative Names:
mc-vc-PAB-MMAE

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Observed Molecular Weight:
1316.63

Product Description

VcMMAE is a **drug-linker conjugate for ADC** with potent antitumor activity by using the anti-mitotic agent, monomethyl auristatin E (MMAE), linked via the lysosomally cleavable dipeptide, valine-citrulline (vc).

In Vitro: Monomethyl auristatin E (MMAE) is efficiently released from SGN-35 within $CD30^+$ cancer cells and, due to its membrane permeability, is able to exert cytotoxic activity on bystander cells[1]. MMAE sensitized colorectal and pancreatic cancer cells to IR in a schedule and dose dependent manner correlating with mitotic arrest. Radiosensitization is evidenced by decreased clonogenic survival and increased DNA double strand breaks in irradiated cells[2].

In Vivo: Monomethyl auristatin E (MMAE) in combination with IR results in tumor growth delay, tumor-targeted ACPP-cRGD-MMAE with IR produces a more robust and significantly prolonged tumor regression in xenograft models[2].