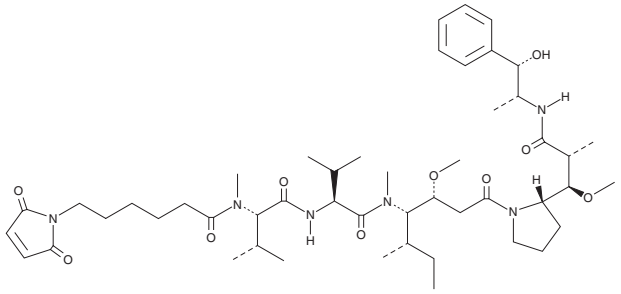
PRODUCT INFORMATION

Mc-MMAE

Item No. 45985

CAS Registry No.: 863971-24-8
Formal Name: N-[6-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxohexyl]-N-methyl-L-valyl-N-[(1S,2R)-4-[(2S)-2-[(1R,2R)-3-[[(1R,2S)-2-hydroxy-1-methyl-2-phenylethyl]amino]-1-methoxy-2-methyl-3oxopropyl]-1-pyrrolidinyl]-2-methoxy-1-[(1S)-1-methylpropyl]-4-oxobutyl]-N-methyl-L-valinamide
Synonyms: Maleimidocaproyl-MMAE, Maleimidocaproyl-monomethyl Auristatin E, Mc-monomethyl Auristatin E
MF: $C_{49}H_{78}N_6O_{10}$
FW: 911.2
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

Mc-MMAE is supplied as a solid. A stock solution may be made by dissolving the Mc-MMAE in the solvent of choice, which should be purged with an inert gas. Mc-MMAE is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

Mc-MMAE is a protease-resistant, reactive drug-linker molecule containing the antimitotic and anticancer agent monomethyl auristatin E (MMAE; Item No. 16267) and a maleimidocaproyl (Mc) linker.[1,2] It has been used in the generation of protein nanoparticle-drug conjugates with anticancer activity.[1] Mc-MMAE has also been conjugated to HRP for the quantification of MMAE-conjugated antibody-drug conjugates (ADCs) in plasma using a competitive ELISA.[2]

References

1. Pallarès, V., Unzueta, U., Falgàs, A., *et al.* An Auristatin nanoconjugate targeting CXCR4$^+$ leukemic cells blocks acute myeloid leukemia dissemination. *J. Hematol. Oncol.* **13(1)**, 36 (2020).
2. Sanderson, R.J., Hering, M.A., James, S.F., *et al. In vivo* drug-linker stability of an anti-CD30 dipeptide-linked Auristatin immunoconjugate. *Clin. Cancer Res.* **11(2 Pt. 2)**, 843-852 (2005).

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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