### Monomethyl auristatin E

**Product Name:** Monomethyl auristatin E  
**CAS No.:** 474645-27-7  
**Cat. No.:** HY-15162  
**MWt:** 717.98  
**Formula:** C39H67N5O7  
**Purity:** >98%  
**Solubility:** DMSO > 100 mg/ml

**Mechanisms:**  
Pathways: Cell Cycle/DNA Damage; Target: Microtubule/Tubulin  
Pathways: Antibody-drug conjugates/ADCs Related; Target: ADCs cytotoxin

**Biological Activity:**  
Monomethyl auristatin E (MMAE; Vedotin) is a hot topic in Antibody-drug conjugates (ADCs) studies. It is an antimitotic agent which inhibits cell division by blocking the polymerisation of tubulin.  
**IC50 Value:**  
Target: ADCs cytotoxin; Microtubule/Tubulin  
For example VcMMAE, an antibody-drug conjugate (ADC) with potent antitumor activity by using the antimitotic agent, monomethyl auristatin E (MMAE), linked via the lysosomally cleavable dipeptide, valine-citrulline (vc). Antibody-drug conjugates (ADCs) are designed to combine the exquisite specificity of antibodies to target tumor antigens with the cytotoxic potency of chemotherapeutic drugs. In vivo studies demonstrated that the peptide-linked conjugates induced regressions and cures of established tumor xenografts with therapeutic indices as high as 60-fold. These conjugates illustrate the importance of linker tec...

**References:**  
[4]. Naumovski L, Junutula JR. Gelmatatumumab vedotin, a conjugate of an anti-glycoprotein non-metastatic melanoma protein B mAb and monomethyl auristatin E for the treatment of melanoma and breast cancer. Curr Op...

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**Caution:** Not fully tested. For research purposes only

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