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## Product Data Sheet

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Product Name: MMAF-OMe

Cat. No.: GC36634

### Chemical Properties

Cas. No. 863971-12-4

SMILES CC[C@H](C)[C@@H]([C@@H](CC(N1[C@@H](CCC1)[C@@H]([C@@H](C)C(N[C@H](C(OC)=O)CC2=CC=CC=C2)=O)OC)=O)OC)N(C([C@H](C(C)C)NC([C@H](C(C)C)NC)=O)=O)C

Formula C<sub>40</sub>H<sub>67</sub>N<sub>5</sub>O<sub>8</sub> M.Wt 745.99

Solubility DMSO: ≥ 100 mg/mL (134.05 mM) Storage Store at -20°C, unstable in solution, ready to use.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure 

### Background

MMAF-Ome belongs to ADC, and inhibits several tumor cell lines with IC<sub>50</sub>s of 0.056 nM, 0.166 nM, 0.183 nM, and 0.449 nM for MDAMB435/5T4, MDAMB361DYT2, MDAMB468, and Raji (5T4-) cell lines, respectively.

2.5F-Fc and 2.5F-Fc-MMAF have similar IC<sub>50</sub> values (6.9±1.1 vs. 8.3±1.3 nM, respectively), indicating that MMAF conjugation has negligible impact on integrin-binding affinity[1].

[1]. Currier NV, et al. Targeted Drug Delivery with an Integrin-Binding Knottin-Fc-MMAF Conjugate Produced by Cell-Free Protein Synthesis. Mol Cancer Ther. 2016 Jun;15(6):1291-300.

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

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