

## Aniline-MPB-amino-C3-PBD

## Chemical Properties

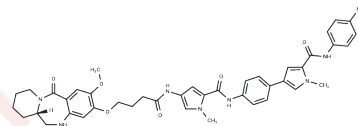
CAS No. : 2412923-79-4

Formula: C42H46N8O6

Molecular Weight: 758.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Aniline-MPB-amino-C3-PBD is a cytotoxic agent with a non-alkylating group and acts as a sequence-selective DNA minor-groove binding agent.   |
| Targets(IC50) | Antibacterial,ADC Cytotoxin  |
| In vitro      | Aniline-MPB-amino-C3-PBD (compound 16) exhibits cytotoxicity with IC50 values of 77, 72, 79, 184.3, 61.5, and 145.6 nM for SW48, LIM1215, SW620, U138-MG, A431, and REH cells, respectively. It effectively stabilizes DNA with sequence specificity and demonstrates potent antibacterial effects against the gram-negative strain E. coli K12 with a potency of 2 µg/mL. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.3178 mL | 6.5888 mL | 13.1777 mL |
| 5 mM  | 0.2636 mL | 1.3178 mL | 2.6355 mL  |
| 10 mM | 0.1318 mL | 0.6589 mL | 1.3178 mL  |
| 50 mM | 0.0264 mL | 0.1318 mL | 0.2636 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

David Edwin Thurston, et al. Polycyclic amides as cytotoxic agents. WO2020049286A1.

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