

## MC-DOXHZN

Catalog No: tcsc1328



### Available Sizes

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**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



### Specifications

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**CAS No:**

151038-96-9

**Formula:**

$C_{37}H_{42}N_4O_{13}$

**Pathway:**

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

**Target:**

Topoisomerase;ADC Cytotoxin

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

Doxorubicin(6-maleimidocaproyl)hydrazone

**Observed Molecular Weight:**

750.75

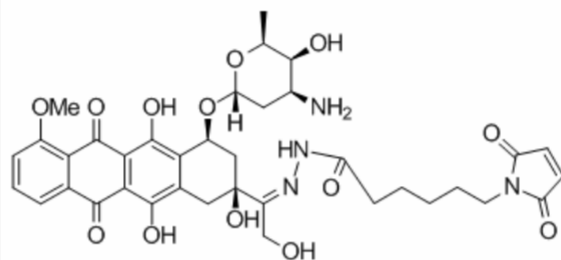
## Product Description

DOXO-EMCH is a 6-maleimidocaproyl hydrazone derivative of Doxorubicin, is an albumin binding prodrug.

IC50 & Target: Topoisomerase<sup>[1]</sup>

**In Vitro:** DOXO-EMCH is an an acid-sensitive prodrug of Doxorubicin that binds rapidly and selectively to the cysteine-34 position of circulating albumin<sup>[1]</sup>.

**In Vivo:** DOXO-EMCH is a 6-maleimidocaproyl hydrazone derivative of Doxorubicin. DOXO-EMCH unlike its free Doxorubicin parent, achieves complete remissions in a murine renal cell carcinoma model and in 2 breast carcinoma xenograft models. Moreover, DOXO-EMCH is also superior to Doxorubicin with regard to drug toxicity in mice, rats and dogs, and exhibits a good safety profile<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!