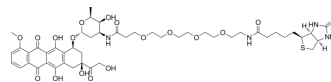


## Dox-btn2

<b>Cat. No.:</b>	HY-153797
<b>Molecular Formula:</b>	C <sub>48</sub> H <sub>64</sub> N <sub>4</sub> O <sub>18</sub> S
<b>Molecular Weight:</b>	1017.1
<b>Target:</b>	ADC Cytotoxin; Topoisomerase; Bacterial; HIV; HBV; Antibiotic; Apoptosis; Autophagy; Mitophagy; AMPK
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Anti-infection; Apoptosis; Autophagy; Epigenetics; PI3K/Akt/mTOR
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Dox-btn2 is a biotinylated derivative of Doxorubicin (HY-15142A), with a biotin label at the point of conjugation to doxorubicin at 3'-NH <sub>2</sub> . Dox-btn2 can be used for cell imaging. While Doxorubicin is mainly accumulated in the nucleus, while Dox-btn2 is mainly located in the cytoplasm <sup>[1]</sup> .
<b>In Vitro</b>	Dox-btn2 (1 μM; 6 h; Exc=531/40 nm and Emi=593/40 nm) exhibits visualization in U2OS cells, helps in situ mapping with Chem-map of small-molecule interactions with DNA and chromatin proteins <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Yu Z, et al. Chem-map profiles drug binding to chromatin in cells. Nat Biotechnol. 2023 Jan 23.

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

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