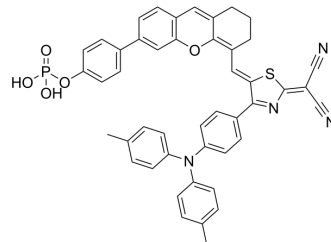


TTX-P

Cat. No.:	HY-149835
Molecular Formula:	C ₄₆ H ₃₅ N ₄ O ₅ PS
Molecular Weight:	786.83
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TTX-P is a fluorescent probe. TTX-P responds in situ to the overexpressed alkaline phosphatase (ALP) in liver, imaging of diabetic liver injury in the near-infrared second-window (NIR-II) region ^[1] .								
In Vitro	TTX-P (10 μM) is responsive to alkaline phosphatase (ALP) and correspondingly emits NIR-II fluorescent signals which are suitable for imaging (at 920 nm) ^[1] . TTX-P (10 μM; HepG2, 4T1, and LO2 cells) can detect and monitor the activity of ALP in cancer cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	TTX-P (5 mg/kg; Intratumoral injection; BALB/C nude mice with 4T1 cells xenografts) has the ability to detect and monitor the activity of endogenous ALP in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>BALB/C nude mice with 4T1 cells xenografts (female, 4-5 weeks old)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intratumoral injection</td> </tr> <tr> <td>Result:</td> <td>Enhanced NIR-II fluorescence signals in a time-dependent manner.</td> </tr> </table>	Animal Model:	BALB/C nude mice with 4T1 cells xenografts (female, 4-5 weeks old) ^[1]	Dosage:	5 mg/kg	Administration:	Intratumoral injection	Result:	Enhanced NIR-II fluorescence signals in a time-dependent manner.
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Dosage:	5 mg/kg								
Administration:	Intratumoral injection								
Result:	Enhanced NIR-II fluorescence signals in a time-dependent manner.								

REFERENCES

[1]. Zi KC, et, al. Visualizing Detection of Diabetic Liver Injury by a Biomarker-Activatable Probe via NIR-II Fluorescence Imaging. Chem. Biomed. Imaging 2023.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA