

TTX-P

Chemical Properties

CAS No. :

Formula: C₄₆H₃₅N₄O₅PS

Molecular Weight:

Keep away from direct sunlight

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	TTX-P is a fluorescent probe that reacts in situ with alkaline phosphatase (ALP) overexpressed in the liver. It is utilized for imaging diabetic liver injury within the second near-infrared (NIR-II) window.
Targets(IC50)	Others
In vitro	TTX-P (10 μM) interacts with alkaline phosphatase (ALP), emitting an NIR-II fluorescent signal at 920 nm, suitable for imaging. Additionally, TTX-P (10 μM; HepG2, 4T1, and LO2 cells) is effective in detecting and monitoring ALP activity within cancer cells.
In vivo	TTX-P (5 mg/kg; intratumoral injection; 4T1 cell xenograft in BALB/C nude mice) is capable of detecting and monitoring endogenous alkaline phosphatase activity in vivo.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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