

HBT-Fl-BnB

Chemical Properties

CAS No. :

Formula: C75H88BNO3S

Molecular Weight:

Keep away from direct sunlight

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	HBT-Fl-BnB is a fluorescent probe used for the detection of ONOO ⁻ both in vitro and in vivo. It consists of an HBT core with Fl groups at the ortho and para positions, which responds to the zwitterionic excited-state intramolecular proton transfer (zwitterionic ESIPT) process. The boronic pinacol ester serves a dual function, blocking zwitterionic ESIPT and identifying ONOO ⁻ .
Targets(IC50)	Others
In vitro	HBT-Fl-BnB solutions at varying concentrations (0, 5, 10, 15, 20, 30, 50 μM) are added to Raw264.7 cells in a cell culture incubator. After 24 hours of incubation, cells treated with HBT-Fl-BnB are imaged using a confocal microscope with dual channels: the first channel (430ch) λ _{em} = 415–515 nm, and the second channel (583ch) λ _{ex} = 405 nm, λ _{em} = 550–650 nm.
In vivo	Eight-week-old female C57BL/6 mice were selected. Thirty minutes prior to imaging, HBT-Fl-BnB (50 μM; 200 μL) was administered via tail vein injection. The mice were subsequently imaged using the PerkinElmer IVIS Lumina XR and the Fluorescence Navigator 360I systems. Imaging of HBT-Fl-BnB-treated mice was conducted using a small animal in vivo dual-channel imaging system: the first channel (430ch) with λ _{em} = 415-515 nm, and the second channel (583ch) with λ _{ex} = 405 nm and λ _{em} = 550-650 nm.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481