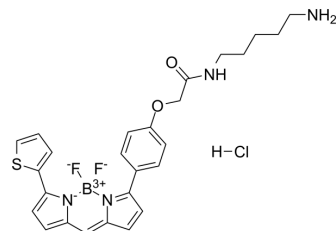


BODIPY TR Cadaverine

Cat. No.:	HY-D1594
CAS No.:	217190-24-4
Molecular Formula:	C ₂₆ H ₂₈ BClF ₂ N ₄ O ₂ S
Molecular Weight:	544.85
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BODIPY TR Cadaverine, a cadaverine derivative, is a red fluorescent dye. BODIPY TR Cadaverine can be used in a highly sensitive and robust fluorescent displacement assay, which binds to native LPS strongly, specifically recognizing lipid A, and is competitively displaced by compounds displaying an affinity for lipid A ^{[1][2]} .
In Vitro	<p>BODIPY TR Cadaverine assay^[1] (to quantify autophagy in cells):</p> <p>Cells were incubated with 125 nM BODIPY TR Cadaverine for 10 minutes, washed four times with PBS and lysed in 10 mM Tris-Cl pH 8, 0.1 % Triton X-100. Fluorescence levels were read in a SPECTRAmax fluorimeter (Molecular Devices) (λ_{ex}=588 nm, λ_{em}=616 nm). Fluorescence levels were normalized for cell number by adding 0.2 mM ethidium bromide and reading DNA fluorescence (λ_{ex}=530 nm, λ_{em}=590 nm)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Carreira RS, et al. Cyclophilin D is required for mitochondrial removal by autophagy in cardiac cells. *Autophagy*. 2010 May;6(4):462-72.

[2]. Wood SJ, et al. Anti-endotoxin agents. 1. Development of a fluorescent probe displacement method optimized for the rapid identification of lipopolysaccharide-binding agents. *Comb Chem High Throughput Screen*. 2004 May;7(3):239-49.

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