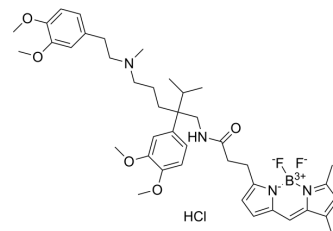


BODIPY FL Verapamil hydrochloride

Cat. No.:	HY-D1609
CAS No.:	216571-88-9
Molecular Formula:	$C_{41}H_{56}BClF_2N_4O_5$
Molecular Weight:	769.17
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BODIPY FL Verapamil hydrochloride is a fluorescent dye, it can be used as a molecular probe to label tissues and cells. BODIPY FL Verapamil hydrochloride is a substrate for both ABCB1 and ABCC1 ^{[1][2]} .
In Vitro	BODIPY FL Verapamil hydrochloride (10 μ M) can be incubated with removed tissue in phosphate buffered solution to demonstrate binding site ^[1] . BODIPY FL Verapamil hydrochloride (0-100 nM) inhibits ABCB1 and ABCC1 efflux with loxapine, mometasone, nicardipine, pimozone and verapamil with IC ₅₀ values of 1.6-15.6 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Just S, et al. Histological demonstration of voltage dependent calcium channels on calcitonin gene-related peptide-immunoreactive nerve fibres in the mouse knee joint. *Neurosci Lett*. 2001 Oct 26;312(3):133-6.
- [2]. Strouse JJ, et al. Fluorescent substrates for flow cytometric evaluation of efflux inhibition in ABCB1, ABCC1, and ABCG2 transporters. *Anal Biochem*. 2013 Jun 1;437(1):77-87.

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

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