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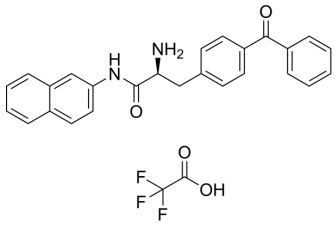
PL553

Cat. No.:	HY-U00452
CAS No.:	1456872-74-4
Molecular Formula:	$C_{28}H_{23}F_3N_2O_4$
Molecular Weight:	508.49
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PL553 is a specific and high-affinity fluorigenic substrate of Leukotriene A4 hydrolase, with a λ_{max} of 210 nm and λ_{em} of 410 nm.
In Vitro	PL553 is a specific and high-affinity fluorigenic substrate of Leukotriene A4 hydrolase (LTA4H), with a maximum absorption (λ_{max}) of 210 nm and maximum emission (λ_{em}) of 410 nm. PL553 is a better LTA4H substrate than (l)-Ala-β-naphthylamide, and resistant to cleavage by other aminopeptidases, but can be cleaved by FAAH. PL553 (40 μM) is used to evaluate the potencies of known inhibitors toward LTA4H[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay [1]	The ability of PL553 to discriminate LTA4H from APN enzymatic activity is tested using the (l)-Ala-β-naphthylamide and PL553 peptide substrates at 40 μM with either APN from porcine kidney (0.33 mU/mL) or recombinant human LTA4H (0.6 μg/mL). The enzymatic reactions proceeds for 1 h at 37°C in a final volume of 100 μL of 50 mM Tris-HCl (pH 7.4) or 50 mM Tris-HCl (pH 7.4) and 100 mM NaCl for APN or LTA4H, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Poras H, et al. A sensitive fluorigenic substrate for selective in vitro and in vivo assay of leukotriene A4 hydrolase activity. Anal Biochem. 2013 Oct 15;441(2):152-61.

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