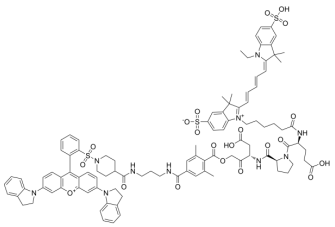
LE 28

Cat. No.:	HY-149102
CAS No.:	1416080-97-1
Molecular Formula:	$C_{102}H_{111}N_{10}O_{21}S_3^+$
Molecular Weight:	1909.22
Target:	Fluorescent Dye; Legumain
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LE 28 is a selective and activity-dependent legumain probe. LE 28 becomes fluorescent only upon binding active legumain. LE 28 can be used for research of cancers and inflammatory diseases[1].
In Vitro	LE 28 (0-5 μM, 1 h) can label legumain in RAW cell lysates by lysis and fluorescent SDS-PAGE method[1]. LE 28 (1 μM 5 h) colocalizes well with Lysotracker in in RAW cell[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LE 28 (2 mg/kg, i.v.) produces specific signal in the kidney of mice[1]. LE 28 (2 mg/kg, i.v.) signal is detected around the periphery of the tumors at 30 min, with maximal contrast between tumor and normal tissue achieved after 7 hours in HCT-116 xenograft tumor model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	HCT-116 xenograft tumor model[1]
Dosage:	2 mg/kg
Administration:	i.v.
Result:	Detected the signal around the periphery of the tumors in as early as 30 min, with maximal contrast between tumor and normal tissue achieved after seven hours, and the signal remained constant up to 28 h.

REFERENCES

[1]. Edgington LE, et al. Functional imaging of legumain in cancer using a new quenched activity-based probe. J Am Chem Soc. 2013 Jan 9;135(1):174-82.

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