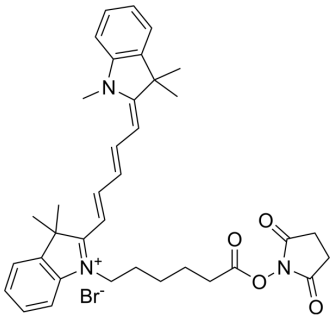
Cyanine5 NHS ester bromide

Cat. No.:	HY-135414A
CAS No.:	1653991-59-3
Molecular Formula:	$C_{36}H_{42}BrN_3O_4$
Molecular Weight:	660.64
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyanine5 NHS ester bromide is a active compound, can be used to label amino groups in peptides, proteins, and oligonucleotides. Cyanine5 NHS ester bromide is a cyanine dye, fluorescence-labeling neurotensin (8-13) via arginine residues[1].
In Vitro	Cyanine5 NHS ester bromide can be excitable with a red (635 nm) and a 488 nm argon laser, respectively[1]. Cyanine5 NHS ester bromide applys for characterization[1]: 1. Acquire high resolution mass spectra (HRMS) with Agilent 6540 UHD Accurate-Mass QTOF LC/MS system coupled to an Agilent 1290 HPLC system, using an ESI source. 2. Perform preparative HPLC with a system from Knauer (Berlin, Germany). A Kinetex-XB C18, 5 µm, 250 × 21 mm (Phenomenex, Aschaffenburg, Germany) is used as stationary phase. Mixtures of 0.1% aq TFA and acetonitrile are used as mobile phase. The flow rate is 18-20 mL/min, and a detection wavelength of 220 nm is used throughout. 3. Analysis HPLC with a system from Agilent Technologies. A Kinetex-XB C18, 2.6 µm, 100 × 3 mm (Phenomenex) serves as stationary phase at a flow rate of 0.5-0.6 mL/min. The oven temperature is set to 25 °C. Mixtures of 0.04% aq TFA and acetonitrile are used as mobile phase. The injection volume is 20 µL. Detection is performed at 220 nm. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Commun Biol. 2022 Oct 3;5(1):1052.

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REFERENCES

[1]. Keller M, et al. Fluorescence Labeling of Neurotensin(8-13) via Arginine Residues Gives Molecular Tools with High Receptor Affinity. ACS Med Chem Lett. 2019 Nov 19;11(1):16-22.

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