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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Rhodamine-N3 chloride

Cat. No.: HY-D1269

CAS No.: 2363751-90-8

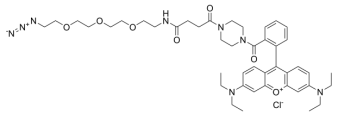
Molecular Formula: $C_{44}H_{59}ClN_8O_7$

Molecular Weight: 847.44

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (3.93 mM; ultrasonic and warming and heat to 60°C)
H_2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.1800 mL	5.9001 mL	11.8002 mL
5 mM	---	---	---
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Rhodamine-N3 chloride is an azide-rhodamine fluorescent dye that can be used to label biomolecules containing alkyne groups[1][2]. Rhodamine-N3 (chloride) is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. It can also undergo strain-promoted alkyne-azide cycloaddition (SPAAC) reactions with molecules containing DBCO or BCN groups.

In Vitro

The cell lysates or cells are treated with probes (0.001-10 μM, 1 hr), and then reacted with an Rhodamine-N3 (N3-Rh) reporter tag under copper-catalyzed azide-alkyne cycloaddition (CuACC or click chemistry) conditions and probe-labeled proteins visualized by SDS-PAGE and in-gel fluorescence scanning[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2023 Feb 17;9(7):eade4770.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Shijiao Cai, et al. Glycyrrhizic Acid-Induced Differentiation Repressed Stemness in Hepatocellular Carcinoma by Targeting c-Jun N-Terminal Kinase 1. Front Oncol. 2020 Jan 9;9:1431.

[2]. Bryan R Lanning, et al. A road map to evaluate the proteome-wide selectivity of covalent kinase inhibitors. Nat Chem Biol. 2014 Sep;10(9):760-767.

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