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Zuschläge

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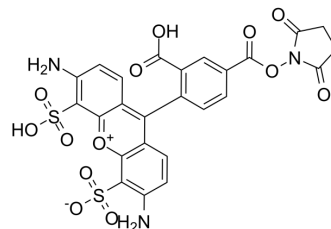
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AF488 NHS ester

Cat. No.:	HY-D1730
CAS No.:	1374019-99-4
Molecular Formula:	C ₂₅ H ₁₇ N ₃ O ₁₃ S ₂
Molecular Weight:	631.54
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AF488 NHS ester is an amine specific fluorescence probe (Em=525 nm). AF488 NHS ester reacts with sulfhydryl groups and amines in aqueous and biological samples then change their chemical structure and fluorescence properties after derivatization ^[1] .
In Vitro	<p>IgG fluorescent labeling and anti-IgG solid phase peptide libraries screening of AF488 NHS ester^[2]</p> <ol style="list-style-type: none"> (1) Dissolve the lyophilized immunoglobulin in a solution of 50 mM sodium phosphate, 20 mM sodium chloride and PH 8.3 at a concentration of 5 g/L. (2) Dissolve 1 mg of AF488 NHS ester in 100 μL extra dry DMF, add 1 mL of solution in (1), and incubate at room temperature for 1 h. (3) Collect samples with Amicon Ultra 0.5-mL Centrifugal Filter Unit equipped with 3-kDa MWCO filters. (4) The deprotected libraries of hexameric or tetrameric are washed in 50 mM sodium phosphate, 150 mM sodium chloride, PH 7.4 (PBS) solution with 5× settled resin volume washing three times to balance. (5) Dilute IgG-AF488 with 50 mM sodium phosphate, 150 mM sodium chloride, 0.2% Tween (PH 7.4) solution until the final concentration is 1.3 mg/mL. (6) Incubate (4) and (5) at 2-8°C overnight. (7) Wash resin beads with 50 mM sodium phosphate, 150 mM sodium chloride, 0.1% Tween 20, PH 7.4 (PBS-T). (8) The resin is deposited in a 96-well plate of 40 μL PBS-T with one bead per well, and then the fluorescence microscope is used to image at 10× magnification. Under 480 nm excitation, Alexa Fluor 488 fluorescence measurement and fluorescence screening are carried out with 510 nm emission intensity as the threshold. <p>AF488 NHS ester storage solution^[1] Prepare 20 mM AF488 NHS ester with DMF. Note: AF488 NHS ester storage solution is recommended to be stored in dark at -20°C after sub-packaging. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Kendall CG, et al. Amine Analysis Using AlexaFluor 488 Succinimidyl Ester and Capillary Electrophoresis with Laser-Induced Fluorescence. J Anal Methods Chem. 2015;2015:368362.

[2]. Lavoie RA, et al. Targeted Capture of Chinese Hamster Ovary Host Cell Proteins: Peptide Ligand Discovery. Int J Mol Sci. 2019 Apr 8;20(7):1729.

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

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