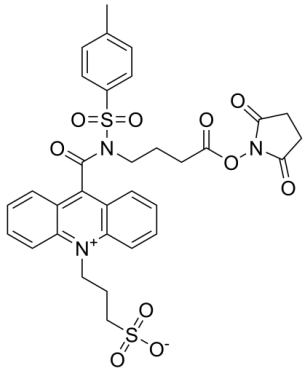
Data Sheet

Product Name:	NSP-SA-NHS
Cat. No.:	CS-0015215
CAS No.:	199293-83-9
Molecular Formula:	$C_{32}H_{31}N_3O_{10}S_2$
Molecular Weight:	681.73
Target:	Fluorescent Dye
Pathway:	Others
Solubility:	DMSO : 11.36 mg/mL (ultrasonic;warming;heat to 60°C)



BIOLOGICAL ACTIVITY:

NSP-SA-NHS is an acridinium ester that can be used for chemiluminescent immunoassay. A rapid and sensitive chemiluminescent immunoassay of Bisphenol A (BPA) with NSP-SA-NHS-labeled has been developed[1]. ***In Vitro:***NSP-SA-NHS marking[1]
(1) 1mg BSA was dissolved in 0.3 mL PBS (solution A), and 0.2 mg NSP-SA-NHS was dissolved in 40 μL DMF (solution B).
(2) Add solution B to solution A, mix at 18°C, 130 rpm, and dark for 12 h.
(3) The mixture was dialyzed with 500 mL of distilled water at 4°C for 2 d, during which distilled water was changed twice (solution C).

(4) Slowly add solution B to solution C, mix at 18°C, 130 rpm, and dark for 24 h, and then dialysis with distilled water for 48 h. During this period, change distilled water four times.
(5) Dilute the coupling compound with distilled water to a suitable concentration, and analyze it with an ultraviolet spectrophotometer.

References:

[1]. Fan Fan Yang, et al. A Rapid and Sensitive Chemiluminescent Immunoassay of Bisphenol a with NSP-SA-NHS-Labeled. Applied Mechanics & Materials, 2014, 707:7-11.

CAIndexNames:

Acridinium, 9-[[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl][(4-methylphenyl)sulfonyl]amino]carbonyl]-10-(3-sulfopropyl)-, inner salt

SMILES:

O=S(CCC[N+]1=C2C=CC=CC2=C(C(N(CCCC(ON3C(CCC3=O)=O)=O)S(=O)(C4=CC=C(C)C=C4)=O)=O)C5=C1C=CC=C5)([O-])=O

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

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