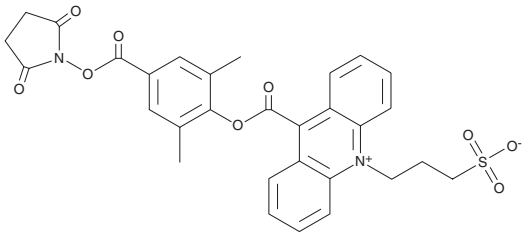
PRODUCT INFORMATION

NSP-DMAE-NHS

Item No. 45035

CAS Registry No.: 194357-64-7
Formal Name: 9-[[4-[[(2,5-dioxo-1-pyrrolidinyl)oxy] carbonyl]-2,6-dimethylphenoxy] carbonyl]-10-(3-sulfopropyl)-acridinium, inner salt
MF: $C_{30}H_{26}N_2O_9S$
FW: 590.6
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NSP-DMAE-NHS is supplied as a solid. A stock solution may be made by dissolving the NSP-DMAE-NHS in the solvent of choice, which should be purged with an inert gas. NSP-DMAE-NHS is sparingly soluble (1-10 mg/ml) in acetonitrile:water (1:1).

Description

NSP-DMAE-NHS is a zwitterionic acridinium ester chemiluminescent probe.[1] It displays a chemiluminescent emission maximum of 426 nm in the presence of alkaline peroxides. NSP-DMAE-NHS is amine reactive and maintains its chemiluminescent signal when incorporated into biomolecule conjugates and has been conjugated to an antibody and used in immunoassays utilizing magnetic nanoparticles.[2]

References

1. Natrajan, A., Sharpe, D., Costello, J., *et al.* Enhanced immunoassay sensitivity using chemiluminescent acridinium esters with increased light output. *Anal. Biochem.* **406(2)**, 204-213 (2010).
2. Yao, M., Wang, L., and Fang, C. The chemiluminescence immunoassay for aflatoxin B1 based on functionalized magnetic nanoparticles with two strategies of antigen probe immobilization. *Luminescence* **32(4)**, 661-665 (2017).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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