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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

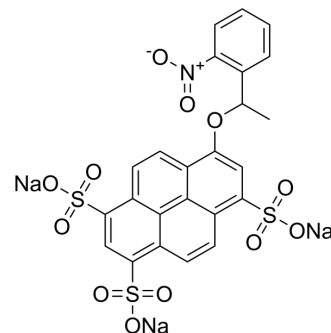
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NPE-caged-HPTS sodium

Cat. No.:	HY-103467
CAS No.:	223759-19-1
Molecular Formula:	C ₂₄ H ₁₄ NNa ₃ O ₁₂ S ₃
Molecular Weight:	673.53
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

NPE-caged-HPTS sodium is a caged fluorophore that fluoresces upon uncaged fluorophore release, releasing the free highly polar fluorophore HPTS (Exc=470/40 nm, Em=525/50 nm). HPTS releases the fluorophore rapidly and uniformly, allowing for measurement of diffusion within tissues, with a diffusion coefficient of $\mu\text{m}^2\text{s}^{-1}$, similar to that of synaptic L-glutamate^[1].

REFERENCES

[1]. Palma-Cerda F, Papageorgiou G, Barbour B, et al. Photolysis of a Caged, Fast-Equilibrating Glutamate Receptor Antagonist, MNI-Caged γ -D-Glutamyl-Glycine, to Investigate Transmitter Dynamics and Receptor Properties at Glutamatergic Synapses[J]. *Frontiers in Cellular Neuroscience*, 2018, 12: 465.

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