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Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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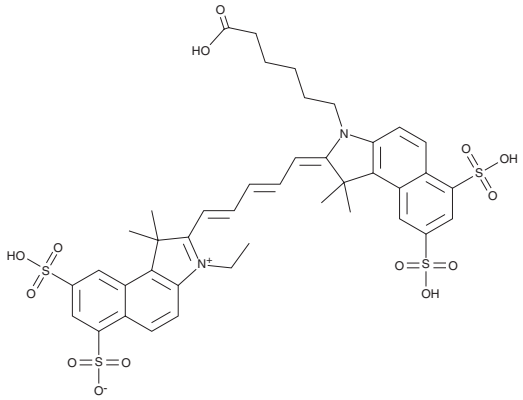
PRODUCT INFORMATION

Sulfo-Cyanine 5.5

Item No. 37369



CAS Registry No.:	210892-23-2
Formal Name:	2-[5-[3-(5-carboxypentyl)-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene]-1,3-pentadien-1-yl]-3-ethyl-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolium, inner salt
Synonym:	Cy5.5
MF:	$C_{41}H_{44}N_2O_{14}S_4$
FW:	917.1
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Ex./Em. Max:	675/694 nm

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

Laboratory Procedures

Sulfo-cyanine 5.5 is supplied as a solid. A stock solution may be made by dissolving the sulfo-cyanine 5.5 in the solvent of choice, which should be purged with an inert gas. Sulfo-cyanine 5.5 is soluble in acetonitrile and DMSO (sonicated).

Description

Sulfo-cyanine 5.5 is an amine-reactive fluorescent probe.[1] It reacts with amine groups to form conjugates with peptides and proteins for detection by various fluorescent-based applications.[1,2] It has been used in cancer-targeted nanovesicles encapsulating perfluorooctyl bromide (PFOB) to identify their localization in mice.[2] Sulfo-cyanine 5.5 displays excitation/emission maxima of 675/694 nm, respectively.[3]

References

1. Josephson, L., Kircher, M.F., Mahmood, U., *et al.* Near-infrared fluorescent nanoparticles as combined MR/optical imaging probes. *Bioconjug. Chem.* **13(3)**, 554-560 (2002).
2. Wang, R., Yao, Y., Gao, Y., *et al.* CD133-targeted hybrid nanovesicles for fluorescent/ultrasonic imaging-guided HIFU pancreatic cancer therapy. *Int. J. Nanomedicine* **18**, 2539-2552 (2023).
3. Kwon, Y.-D., Oh, J.-M., Chun, S., *et al.* Synthesis and evaluation of multivalent nitroimidazole-based near-infrared fluorescent agents for neuroblastoma and colon cancer imaging. *Bioorg. Chem.* **113**, 104990 (2021).

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