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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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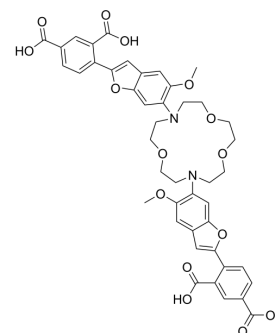
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SBFI

Cat. No.:	HY-D1760
CAS No.:	124549-08-2
Molecular Formula:	C ₄₄ H ₄₂ N ₂ O ₁₅
Molecular Weight:	838.81
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SBFI is a membrane-permeant, fluorescent Na ⁺ indicator dye. SBFI is excited at 340 nm and the fluorophore emission is collected at 450 nm ^[1] . SBFI selective for Na ⁺ over K ⁺ with K _d values of 20 and 120 mM for these ions, respectively. ^[2]
In Vitro	<p>The SBFI dye for each sample was prepared by : ^[1]</p> <ol style="list-style-type: none"> 1. dissolving the appropriate quantity of dye powder in 3 mL of dimethyl sulphoxide. 2. The five solutions were agitated for 5 minutes. 3. Each sample was then exposed to ultraviolet light with a Leitz Orthoplan microscope, and fluorescence levels recorded. 4. Ten readings in total were achieved for each solution, agitating between readings. 5. For each set of sample results the highest, lowest, and median values were plotted against dye concentration. 6. From these tests the optimum fluorescence values, with minimum variation of upper and lower limits, was established with 50 g of SBFI dye. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Leevess MA, The effect of mechanical deformation on the distribution of ions in fibroblasts. Am J Orthod Dentofacial Orthop. 1995 Jun;107(6):625-32.

[2]. Minta A, Fluorescent indicators for cytosolic sodium. J Biol Chem. 1989 Nov 15;264(32):19449-57.

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

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