

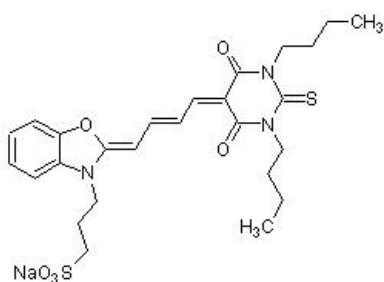
Product datasheet

Merocyanin 540 (Merocyanine 540), Fluorescent membrane indicator ab145391

Overview

Product name	Merocyanin 540 (Merocyanine 540), Fluorescent membrane indicator
Description	Fluorescent membrane potential indicator
Biological description	Fluorescent membrane potential indicator. Selectively stains electrically excitable membranes. Stains Ca ²⁺ -dependently in buffered iso-osmotic sucrose and Ca ²⁺ -independently at high ionic strength.
Purity	> 90%
CAS Number	62796-23-0

Chemical structure



Properties

Excitation	500nm
Emission	500nm
Chemical name	3-[[2Z]-2-[(E)-4-(1,3-Dibutyl-4,6-dioxo-2-sulfanylidene-1,3-diazinan-5-ylidene)but-2-enylidene]-1,3-benzoxazol-3-yl]propane-1-sulfonate sodium
Molecular weight	569.67
Molecular formula	C ₂₆ H ₃₂ N ₃ NaO ₆ S ₂
PubChem identifier	5702743
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water, in ethanol and in DMSO
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

CCCCN1C(=O)C(=C/C=C/C=C\2/N(C3=CC=CC=C3O2)CCCS(=O)(=O)[O-])C(=O)N(C1=S)CCCC.[Na+]

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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