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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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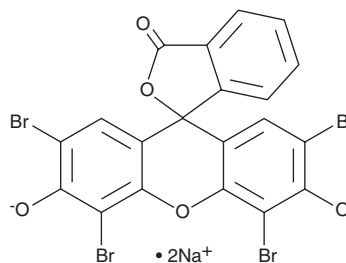
PRODUCT INFORMATION



AMI-5 (sodium salt)

Item No. 36335

CAS Registry No.: 17372-87-1
Formal Name: 9'[9H]xanthen]3one,2',4',5',7'tetrabromo3',6'dihydroxy Spiro[isobenzofuran1(3H), disodium salt
Synonyms: C.I. 45380, Eosin Y
MF: C₂₀H₆Br₄O₅ • 2Na
FW: 691.9
Purity: ≥95%
Ex./Em. Max: 526/544 nm
UV/Vis.: λ_{max}: 253, 533 nm
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

AMI-5 (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the AMI-5 (sodium salt) in the solvent of choice, which should be purged with an inert gas. AMI-5 (sodium salt) is soluble in the organic solvent DMSO at a concentration of approximately 1 mg/ml.

Description

AMI-5 is a brominated fluorescein dye.¹ It exists as a tautomer in aqueous solutions.² AMI-5 has minimal pH dependence at physiological pH and it can be used to stain the extracellular matrix and cytoplasmic proteins.^{3,4} It displays excitation/emission maxima of 526/544 nm, respectively.¹ AMI-5 (100 μM) also non-selectively inhibits histone methyltransferases.⁵

References

1. Seybold, P.G., Gouterman, M., and Callis, J. Calorimetric, photometric and lifetime determinations of fluorescence yields of fluorescein dyes. *Photochem. Photobiol.* **9(3)**, 229-242 (1969).
2. McHedlov-Petrosyan, N.O., Vodolazkaya, N.A., Surov, Y.N., et al. 2,4,5,7-Tetranitrofluorescein in solutions: novel type of tautomerism in hydroxyxanthene series as detected by various spectral methods. *Spectrochim. Acta A Mol. Biomol. Spectrosc.* **61(11-12)**, 2747-2760 (2005).
3. Slyusareva, E. and Gerasimova, M.A. pH-dependence of the absorption and fluorescent properties of fluorone dyes in aqueous solutions. *Russ. Phys. J.* **56(12)**, 1370-1377 (2014).
4. Fischer, A.H., Jacobson, K.A., Rose, J., et al. Hematoxylin and eosin staining of tissue and cell sections. *CSH Protoc.* **3(5)**, prot4986 (2006).
5. Okabe, J., Fernandez, A.Z., Ziemann, M., et al. Endothelial transcriptome in response to pharmacological methyltransferase inhibition. *ChemMedChem* **9(8)**, 1755-1762 (2014).

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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