



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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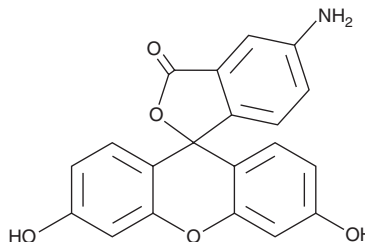
# PRODUCT INFORMATION



## 5-Aminofluorescein

Item No. 36270

**CAS Registry No.:** 3326-34-9  
**Formal Name:** 5-amino-3',6'-dihydroxy-spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one  
**Synonyms:** 5-AF, Fluoresceinamine isomer 1  
**MF:** C<sub>20</sub>H<sub>13</sub>NO<sub>5</sub>  
**FW:** 347.3  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 226 nm  
**Ex./Em. Max:** 490/515 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

5-Aminofluorescein is supplied as a solid. A stock solution may be made by dissolving the 5-aminofluorescein in the solvent of choice, which should be purged with an inert gas. 5-Aminofluorescein is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 5-aminofluorescein in these solvents is approximately 5 mg/ml.

### Description

5-Aminofluorescein is a fluorescent compound and an inhibitor of the mRNA N<sup>6</sup>-methyladenosine (m<sup>6</sup>A) demethylase fat mass and obesity-associated (FTO) protein (IC<sub>50</sub> = 6.55 μM).<sup>1,2</sup> It displays excitation/emission maxima of 490 and 515 nm, respectively, and has been conjugated to human serum albumin for fluorescence imaging of glioblastomas.<sup>1,3</sup>

### References

1. Al-Natour, M.A., Yousif, M.D., Cavanagh, R., *et al.* Facile dye-initiated polymerization of lactide-glycolide generates highly fluorescent poly(lactic-co-glycolic acid) for enhanced characterization of cellular delivery. *ACS Macro Lett.* **9**(3), 431-437 (2020).
2. Wang, T., Hong, T., Huang, Y., *et al.* Fluorescein derivatives as bifunctional molecules for the simultaneous inhibiting and labeling of FTO protein. *J. Am. Chem. Soc.* **137**(43), 13736-13739 (2015).
3. Ding, R., Frei, E., Fardanesh, M., *et al.* Pharmacokinetics of 5-aminofluorescein-albumin, a novel fluorescence marker of brain tumors during surgery. *J. Clin. Pharmacol.* **51**(5), 672-678 (2011).

#### 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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