
FAM NHS ester, 6-isomer

<http://www.lumiprobe.com/p/fam-6-nhs>

Fluorescein (FAM) is a bright fluorophore that has found an extremely wide application in life science research. The fluorophore is hydrophilic and its derivatives possess good solubility in aqueous buffers.

Fluorescein is compatible with a wide variety of fluorescent instrumentation - most instruments are equipped with FAM channel filters.

This product contains the pure 6-isomer of fluorescein.



6-FAM NHS ester structure

General properties

Appearance:	yellow crystalline solid
Mass spec M+ increment:	358.0
Molecular weight:	473.39
CAS number:	92557-81-8
Molecular formula:	C ₂₅ NO ₉ H ₁₅
IUPAC name:	(2,5-dioxopyrrolidin-1-yl) 3',6'-dihydroxy-1-oxospiro[2-benzofuran-3,9'-xanthene]-5-carboxylate
Solubility:	good in DMF, DMSO
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	494
ε, L·mol ⁻¹ ·cm ⁻¹ :	75000
Emission maximum, nm:	520
Fluorescence quantum yield:	0.9
CF ₂₆₀ :	0.20
CF ₂₈₀ :	0.17