

Product Data Sheet



5-JOE NHS ester Catalog ID: 131101

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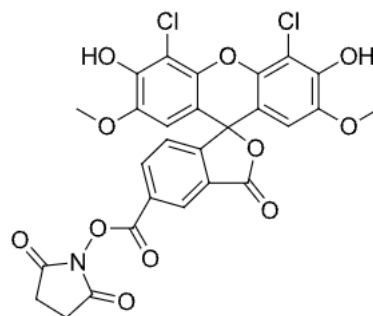
Description

JOE is a fluorescein-based xanthene dye that incorporates methoxy groups and chlorine atoms. Its absorption and emission spectra fall between the FAM and TAMRA/ROX channels, making it an ideal fluorophore for multiplex detection applications, such as DNA sequencing.

This derivative is an activated N-hydroxysuccinimide (NHS) ester, which is used to label proteins, peptides, amino-modified oligonucleotides, and other target molecules by forming stable amide bonds with amine groups. This versatility makes JOE NHS ester a valuable tool in fluorescence-based research and molecular labeling.

Chemical Properties

CAS number	113394-24-4
Formula	C ₂₇ H ₁₇ Cl ₂ NO ₁₁
Molecular Weight	602.33
HPLC Purity	≥95%
λ _{abs} (nm)	533
ε _{max} (M ⁻¹ cm ⁻¹)	7.5×10 ⁴
λ _{fl} (nm)	554
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	0.36
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	0.28



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, 5-JOE NHS ester is stable for at least 1 year.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Shenzhen U-genes Biotechnology Co., Ltd.

Suite 201, Building 3, No.2 Baolong 4th Road, Shenzhen, China, 518116

Email: contact@u-genes.com Tel.: +86 755 84644912

www.u-genes.com