

Product Data Sheet



5-HEX NHS ester
Catalog ID: 130701

Revised: 2025-01-31

Description

5-HEX NHS ester is a pink fluorescent dye designed to produce stable fluorescent signals in bioimaging applications. This dye serves as an effective replacement for HEX, JOE, VIC, CAL, and Fluor Orange 560. The NHS ester functionality allows it to readily react with amino groups, such as the ϵ -amino group of lysine in proteins or the amine terminus of modified nucleotides, forming stable amide bonds between the dye and biomolecules.

Chemical Properties

CAS number	NA
Formula	$C_{25}H_9Cl_6NO_9$
Molecular Weight	680.05
HPLC Purity	$\geq 95\%$
λ_{abs} (nm)	533
ϵ_{max} ($M^{-1} cm^{-1}$)	7.3×10^4
λ_{fl} (nm)	559
$CF_{260} = \epsilon_{260} / \epsilon_{max}$	NA
$CF_{280} = \epsilon_{280} / \epsilon_{max}$	NA

Storage

Upon receipt, store at $-20^{\circ}C$ in the dark. Protect from light and moisture. When stored as indicated, 5-HEX NHS ester is stable for at least 1 year.

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

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