Product Data Sheet

5-CR6G SE
Catalog ID: 140201-5

Revised: 2025-01-31

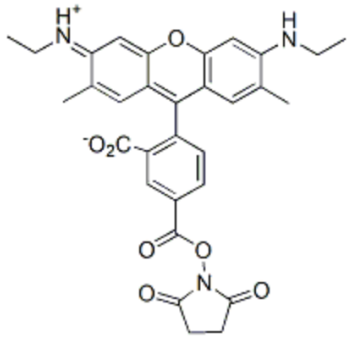
Description

5-CR6G SE is the amine-reactive derivative of 5-CR6G. It is particularly favored in complex biological applications where reproducibility is more critical than material cost, as the minor positional difference between 5-CR6G and 6-CR6G can significantly impact the biological properties of the resulting conjugates.

The NHS ester functionality allows 5-CR6G SE to react specifically and efficiently with primary amines, such as the side chain of lysine residues in proteins or aminosilane-coated surfaces, under neutral or slightly basic conditions. This reaction forms a stable covalent bond, making it a valuable tool for labeling and conjugation in biological research.

Chemical Properties

CAS number	209112-21-0
Formula	$C_{31}H_{29}N_3O_7$
Molecular Weight	555.59
HPLC Purity	≥95%
λ_{abs} (nm)	522
ε_{max} (M^{-1} cm^{-1})	9.4×10^4
λ_{fl} (nm)	546
CF_{260} =$\varepsilon_{260}/\varepsilon_{max}$	0.24
CF_{280} =$\varepsilon_{280}/\varepsilon_{max}$	0.214



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, 5-CR6G SE 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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