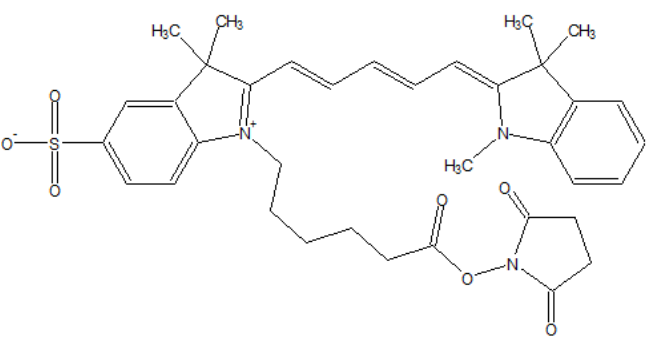




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## CERTIFICATE OF ANALYSIS

Date 02/23/2013

<b>Product name:</b>	monoSulfo - Cy5 NHS Ester	<b>cat. no.</b>	Lot 10018, Lot 20018, Lot 30018, Lot 40018	
<b>Structure</b>	 <p>The chemical structure shows a Cy5 dye core (a xanthenone derivative) with a sulfonate group (-SO<sub>3</sub><sup>-</sup>) at the 3-position and a long chain at the 4-position. The chain consists of a heptyl linker connected to a succinimidyl ester group (-NHS). The dye core has two methyl groups (H<sub>3</sub>C) at the 10 and 11 positions. The succinimide ring has a methyl group (H<sub>3</sub>C) at the 2-position.</p>			
<b>FW</b>				<b>659.79</b>
<b>Appearance</b>				dark blue solid
<b>Purity</b>				95+%

### QUALITY CONTROL

<b><sup>1</sup>H NMR</b>	95+%	Analytical Data page 1
<b>TLC</b>	pass	major spot in 20% MeOH in CHCl <sub>3</sub>
<b>Functional testing</b>	pass	reaction with 6-aminohexanol controlled by TLC

