

# CERTIFICATE OF ANALYSIS

## Product Identification

|                           |                              |
|---------------------------|------------------------------|
| <b>Product Name</b>       | Flamma® 594NA NHS ester      |
| <b>Catalog Number</b>     | KNS1001                      |
| <b>Appearance</b>         | Purple Solid                 |
| <b>Storage Conditions</b> | Protect from Light at -20 °C |
| <b>Lot Number</b>         | ATF00005                     |
| <b>Molecular Weight</b>   | 818 g/mol                    |
| <b>Soluble in</b>         | DMF, DMSO                    |

## Product Analysis

|   |               |                                    |
|---|---------------|------------------------------------|
| <b>NMR</b>                                | Lot Data      | meets specification                |
|   | Specification | consistent with structure          |
| <b>HPLC - Purity</b>                      | Lot Data      | 97%                                |
|   | Specification | ≥ 90%                              |
| <b>LC/MS - Identity</b>                   | Lot Data      | meets specification                |
|   | Specification | consistent with mass/fragmentation |
| <b>Absorption * - Maximum</b>             | Lot Data      | 583 nm                             |
|   | Specification | 583 ± 3 nm                         |
| <b>Emission * - Maximum</b>               | Lot Data      | 603 nm                             |
|   | Specification | 603 ± 4 nm                         |
| <b>Extinction Coefficient * at 583 nm</b> | Lot Data      | 100,000 /cm·M                      |
|   | Specification | ≥ 92,000 /cm·M                     |

\* Analytical Solvent : Dimethylformamide



Date of Issue : 28 Jan 2019

**\*\*For Research Use Only\*\***

BioActs certifies on the date above that is an accurate record of the analysis of the subject lot, and that the data conform to all quality specifications.