

# Certificate of analysis



## ATM4 4-acetoxy analog

*N*-[2-[5-(acetyloxy)-3,6-dimethoxy-1-phenanthrenyl]ethyl]-*N*-methyl-acetamide

Item number ....:15498  
Batch number :0454795  
Purity Specification.....>98%

Molecular Formula: C<sub>23</sub>H<sub>25</sub>NO<sub>5</sub>  
CAS Number .....: 91295-74-8

Formula Weight: 395.50  
Expiry date .....: 2/12/2016

Tests	Specifications	Results
HPLC	Column .....: C18, 5 $\mu$ , 4.6 X 250 mm Mob. Phase.....: Methanol:Water:Acetic acid (70:30:0.1) Flow Rate.....: 1.00 ml/min Detector UV .....: 210 nm	Retention Time Actual.: 6.80 min Purity .....: 98.4 %
IR	Conforms with standard	Conforms
Mass	Source Type .....: OTHER M+Na	Expected 418.4 Actual 418.4
Melting Point	137 - 146 °C	140 - 143 °C
TLC	Mob. Phase.....: Dichloromethane:Methanol (95:5) Stationary Phase: Silica Gel Visualized With ..: Sulfuric Acid	Rf.....: 0.51 Purity % .....: 100.00
UV	max .....: 315, 303, 284, 259 nm	max .....: 315, 303, 284, 259 nm

Analyzed by: Jessie Schrot

Approved by: Libby Perry