

**Analytical Data Sheet**

**Lot number** **1000040676**  
not for drug use

**Product** Fmoc-D-Cys(Mtt)-OH

**Product number** **4066063.0005**

**Molecular formula** C<sub>38</sub>H<sub>33</sub>NO<sub>4</sub>S

**Relative molecular mass** 599.75

Tests	Results
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in acetonitrile) clear, colorless solution (0.5 mmol/mL in DMF)
<b>Identification (ESI-MS)</b>	m = 599.7u (average mass)
<b>Melting point</b>	102 °C
<b>Purity (HPLC)</b>	98.8% (TFA)
<b>Related impurities (HPLC)</b>	not det. Fmoc-D-Cys-OH not det. Fmoc-β-Ala-OH
<b>Purity (TLC)</b>	> 99%
<b>Related impurities (TLC)</b>	< 0.2% H-Cys(Mtt)-OH
<b>TLC conditions</b>	chloroform/methanol/acetic acid/ H <sub>2</sub> O 85/13/0.5/1.5 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Enantiomer content (chiral chromatography)</b>	0.1% L-enantiomer
<b>Assay (titration)</b>	94.4% (TBAH)
<b>Water content (KF volumetric)</b>	0.6%
<b>Acetic acid content (IC)</b>	0.001%

Latest update: November 16, 2020

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