

## Analytical Data Sheet

Lot number **1000029162**  
not for drug use

Catalog number **B-3340.0005**  
Product number **4028614.0005**  
Product **Fmoc- Cys(Mtt) - OH**  
Molecular formula  $C_{38}H_{33}NO_4S$   
Relative molecular mass 599.75

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in acetonitrile) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	106 °C
Purity (HPLC)	99.4% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-Cys-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Cys(Mtt)-OH
TLC conditions	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, IRH
Enantiomer content (GC)	< 0.1% D-Enantiomer
Assay (titration)	96.1% (TABH)
Water content (KF volumetric)	1.8%
Acetic acid content (IC)	0.0143% (limit test)

Latest update: February 25, 2020

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