

Analytical Data Sheet

Lot number **1061334**
not for drug use

Catalog number **A-2030.0100**
Product number **4010026.0100**
Product **Boc- Cys(MbzI) - OH**
Molecular formula **C₁₆H₂₃NO₄S**
Relative molecular mass **325.43**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)
Identification (elemental analysis)	Theory Found C = 59.1 % C = 59.1 % H = 7.1 % H = 7.1 % N = 4.3 % N = 4.3 %
Identification (TLC)	complies with authentic material
Melting point	88 °C
Specific optical rotation	$[\alpha]_D^{24} = -42.3^\circ$ (1 % in DMF)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Cys(MbzI)-OH
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.1% D-enantiomer
Assay (titration)	99.3% (TBAH)

Latest update: September 03, 2015

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