

## Analytical Data Sheet

Lot number **1000012559**  
not for drug use

Retest date August 2023  
Catalog number **E-1760.0100**  
Product number **4030444.0100**  
Product **(H- Cys- OH)<sub>2</sub>**  
**(Disulfide bond)**  
Molecular formula  $C_6H_{12}N_2O_4S_2$   
Relative molecular mass 240.30

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)
Identification (TLC)	Rf value in agreement with authentic material
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.5% H-Cys-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F <sub>254</sub> - RP 8  isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub>  detected by: UV, ninhydrin, TMB
Other amino acids (GC)	none detected (< 0.3 %)
Enantiomer content (chiral chromatography)	0.28% D-enantiomer as Cysteine (Method A.0.3)
Assay (elemental analysis)	99.5% (Nth 11.66%, Nfd 11.60%)

Latest update: March 06, 2019

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