

Analytical Data Sheet

Lot number

1040095

not for drug use

Catalog Number	F-3345.0250
Product number	4026225.0250
Product	(H- D- Cys- OMe) ₂ · 2 HCl (Disulfide bond)
Molecular formula	C ₈ H ₁₆ N ₂ O ₄ S ₂ · 2 HCl
Relative molecular mass	341.28

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 28.16 %</td> <td>C = 27.95 %</td> </tr> <tr> <td>H = 5.32 %</td> <td>H = 5.46 %</td> </tr> <tr> <td>N = 8.21 %</td> <td>N = 8.10 %</td> </tr> </table> <p>calc. as 2 HCL</p>	Theory	Found	C = 28.16 %	C = 27.95 %	H = 5.32 %	H = 5.46 %	N = 8.21 %	N = 8.10 %
Theory	Found								
C = 28.16 %	C = 27.95 %								
H = 5.32 %	H = 5.46 %								
N = 8.21 %	N = 8.10 %								
Identification (TLC)	conforms with authentic material								
Melting point	166.6 °C								
Specific optical rotation	[α] _D ²⁴ = + 44.7 ° (1 % in methanol)								
Purity (TLC)	> 98%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 n-butanol/acetic acid/H ₂ O/pyridine 30/6/24/20 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Water content (KF coulometric)	0.8%								
Chloride content (titration)	20.8% (AgNO ₃)								
Latest update: December 14, 2011									