

Analytical Data Sheet

Lot number **1053934**
not for drug use

Catalog number **E-1665.0025**
Product number **4002681.0025**
Product **H- Ser(tBu) - OMe · HCl**
Molecular formula **C₈H₁₇NO₃ · HCl**
Relative molecular mass **211.69**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	168 °C
Specific optical rotation	$[\alpha]_D^{24} = +6.8^\circ$ (1% in dimethylformamide)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Ser-OMe · HCl
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.45% D-Enantiomer
Assay (elemental analysis)	99.8% (Cth 45.39%, Cfd 45.30%)
Chloride content (titration)	103% (Cl ⁻ th 16.75%)