

## Analytical Data Sheet

Lot number **1067190**  
not for drug use

Catalog number **E-1665.0001**  
Product number **4002681.0001**  
Product **H- Ser(tBu) - OMe · HCl**  
Molecular formula  $C_8H_{17}NO_3 \cdot HCl$   
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)	< 0.1% H-Ser-OMe · HCl
TLC conditions	chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/10/3/4 chloroform/methanol/acetic acid/H <sub>2</sub> O 85/13/0.5/1.5 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.45% D-Enantiomer
Assay (elemental analysis)	99.6% (Cth 45.39%, Cfd 45.22%)
Chloride content (titration)	103% (Cl <sup>-</sup> th 16.75%)

Latest update: September 30, 2016

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