

**Analytical Data Sheet**

**Lot number** **1000044487**  
not for drug use

**Product** H-Lys(Tfa)-OH  
**Product number** **4008182.0100**  
**Molecular formula**  $C_8H_{13}F_3N_2O_3$   
**Relative molecular mass** 242.20

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = + 11.9^\circ$ (2% AcOH 50%)
Purity (TLC)	>99%
Related impurities (TLC)	<0.1% H-Lys-OH
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 70/42/0.5/10 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 plate: silicagel 60 F <sub>254</sub> detected by; UV, ninhydrin, TMB
Enantiomer content (GC)	<0.1% D-Enantiomer
Other amino acids (GC)	<0.3
Assay (elemental analysis)	99.1% (N <sub>Th</sub> 11.57%, N <sub>Fd</sub> 11.47%)
Water content (KF volumetric)	<0.1%

Latest update: March 09, 2021

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