

Analytical Data Sheet

Lot number

1041111

not for drug use

Catalog Number	A-1370.0025
Product number	4006621.0025
Product	Boc- His(3- Bom) - OH
Molecular formula	$C_{19}H_{25}N_3O_5$
Relative molecular mass	375.43

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in THF) clear, colorless solution (1.76 NTU) (0.5 mmol/mL in dimethylformamide)
Identification (TLC)	Rf value in agreement with authentic material
Melting point	156 °C
Specific optical rotation	$[\alpha]_D^{24} = +6.0^\circ$ (1 % in MeOH)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% Boc-His-OH < 0.1% H-His-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/acetic acid 77.5/15/7.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.6% D-Enantiomer
Assay (titration)	100.0% (TBAH)
Water content (KF volumetric)	0.4%
Latest update: February 14, 2012	