

Analytical Data Sheet

Lot number **1066032**
not for drug use

Catalog number **E-2535.0025**
Product number **4001023.0025**
Product **H- Tyr- OtBu**
Molecular formula $C_{13}H_{19}NO_3$
Relative molecular mass 237.30

Tests	Results								
Appearance	off-white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 65.6 %</td> <td>C = 65.2 %</td> </tr> <tr> <td>H = 8.1 %</td> <td>H = 8.1 %</td> </tr> <tr> <td>N = 5.9 %</td> <td>N = 5.8 %</td> </tr> </tbody> </table> <p>calc. x 0.05 H₂O (0.4 %)</p>	Theory	Found	C = 65.6 %	C = 65.2 %	H = 8.1 %	H = 8.1 %	N = 5.9 %	N = 5.8 %
Theory	Found								
C = 65.6 %	C = 65.2 %								
H = 8.1 %	H = 8.1 %								
N = 5.9 %	N = 5.8 %								
Melting point	144 °C								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.05% H-Tyr-OH								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 77.5/15/7.5 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.1% H-D-Tyr-OtBu								
Other amino acids (GC)	< 0.3%								
Enantiomer content (chiral chromatography)	0.1% D-enantiomer								
Assay (elemental analysis)	99.1% (Cth 65.80 %, Cfd 65.22 %)								
Assay (titration)	99.4% (HClO ₄)								
Water content (KF volumetric)	0.4%								