

Analytical Data Sheet

Lot number **1068699**
not for drug use

Catalog number **B-2130.0005**
Product number **4013494.0005**
Product **Fmoc- Met(O) - OH**
Molecular formula $C_{20}H_{21}NO_5S$
Relative molecular mass 387.46

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (0.5 mmol/mL in DMF) clear, colorless solution (25 mg/mL in dioxane)
Identification (TLC)	complies with authentic material
Melting point	156 °C
Purity (HPLC)	99.6% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-Met-OH < 0.1% Fmoc-β-Ala-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Met(O)-OH
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.9% D-enantiomer
Assay (titration)	96.4% (TBAH)
Water content (KF volumetric)	0.6%
Acetic acid content (IC)	< 0.002%