

Analytical Data Sheet

Lot number **1069690**
not for drug use

Catalog number **I-1605.0050**
Product number **4016432.0050**
Product **H- Pro- Arg- AMC · 2 HCl**
Molecular formula $C_{21}H_{28}N_6O_4 \cdot 2 HCl$
Relative molecular mass 501.41

Tests	Results
Appearance	white crystals
Appearance of solution	clear, colorless solution (50 mg/mL in methanol 50%)
Identification (elemental analysis)	Theory Found C = 48.7% C = 48.7% H = 6.2% H = 6.3% N = 16.2% N = 16.3% calc. x 0.9 H ₂ O (3.1%)
Identification (TLC)	complies with authentic material
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% 7-Amino-4-methylcoumarin (AMC)
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	97.0% (Nth 16.76%, Nfd 16.25%)
Water content (KF volumetric)	3.1%

Latest update: January 26, 2017

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