

Analytical Data Sheet

Lot number **1000033223**
not for drug use

Product H-Pro-Arg-OH acetate salt

Product number **4006116.0250**

Molecular formula $C_{11}H_{21}N_5O_3$

Relative molecular mass 271.32

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in AcOH 80%)
Identification (elemental analysis)	Theory Found C = 44.46% C = 44.21% H = 7.81% H = 7.58% N = 19.94% N = 20.07% calc. as acetic acid x 1.1 H ₂ O (5.6%)
Melting point	196 °C
Specific optical rotation	$[\alpha]_D^{24} = -27.8^\circ$ (1% in H ₂ O) $[\alpha]_{365}^{24} = -90.7^\circ$ (1% in H ₂ O)
Purity (TLC)	> 99%
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 isopropanol/ammonia conc. 1/1 n-butanol/acetic acid/ H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	95.0% (Nth 21.13%, Nfd 20.07%)
Water content (KF coulometric)	5.6%

Latest update: July 05, 2020

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