

## Certificate of Analysis

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**Product Name:** UAMC 00039 dihydrochloride

**Catalog No.:** 4954

**Batch No.:** 1

CAS Number: 697797-51-6

IUPAC Name: (2S)-2-Amino-4-[[[(4-chlorophenyl)methyl]amino]-1-(1-piperidiny)]-1-butanone dihydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>24</sub>ClN<sub>3</sub>O.2HCl

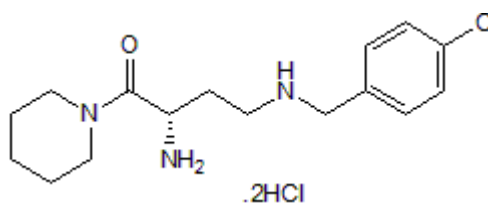
**Batch Molecular Weight:** 382.76

**Physical Appearance:** White solid

**Solubility:**  
water to 100 mM  
DMSO to 100 mM  
ethanol to 10 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows >98% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	50.21	6.85	10.98
Found	49.93	6.8	10.83	

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**Description:**

Potent inhibitor of dipeptidyl peptidase II (DPP-II) ( $IC_{50}$  = 0.48 nM). Exhibits selectivity for DPP-II against DPP-9, DPP-8 and DPP-IV ( $IC_{50}$  values are 78.6, 142 and 165  $\mu$ M, respectively). Orally available.

**Physical and Chemical Properties:**

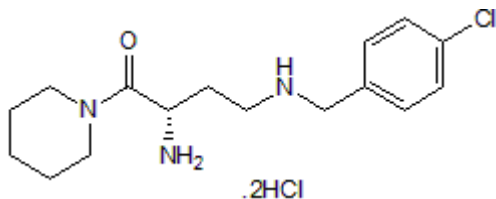
Batch Molecular Formula:  $C_{16}H_{24}ClN_3O \cdot 2HCl$

Batch Molecular Weight: 382.76

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM  
DMSO to 100 mM  
ethanol to 10 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Maes et al** (2007) Dipeptidyl peptidase 8/9-like activity in human leukocytes. *J.Leukoc.Biol.* **81** 1252. PMID: 17287297.

**Van Goethem et al** (2011) Structure-activity relationship studies on isoindoline inhibitors of dipeptidyl peptidases 8 and 9 (DPP8, DPP9): is DPP8-selectivity an attainable goal? *J.Med.Chem.* **54** 5737. PMID: 21711053.

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