Product Name: MDL 28170
Catalog No.: 1146
Batch No.: 3

CAS Number: 88191-84-8
IUPAC Name: N-[N-[(Phenylmethoxy)carbonyl]-L-valyl]-phenylalaninal

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{22}H_{26}N_{2}O_{4}
Batch Molecular Weight: 382.45
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 97% purity
1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.09</td>
<td>68.88</td>
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<tr>
<td>Hydrogen</td>
<td>6.85</td>
<td>6.97</td>
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<tr>
<td>Nitrogen</td>
<td>7.32</td>
<td>7.5</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: MDL 28170

CAS Number: 88191-84-8

IUPAC Name: N-[(Phenylmethoxy)carbonyl]-L-valyl]-phenylalaninal

Description:
Potent, selective inhibitor of calpain and cathepsin B (K values are 10 and 25 nM respectively) that does not inhibit trypsin-like serine proteases. Rapidly penetrates the blood-brain barrier following systemic administration and displays neuroprotective effects in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{22}H_{26}N_{2}O_{4}
Batch Molecular Weight: 382.45
Physical Appearance: White solid
Minimum Purity: >95%

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 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: