

**Product Name:** TAPI 1

**Catalog No.:** 6162

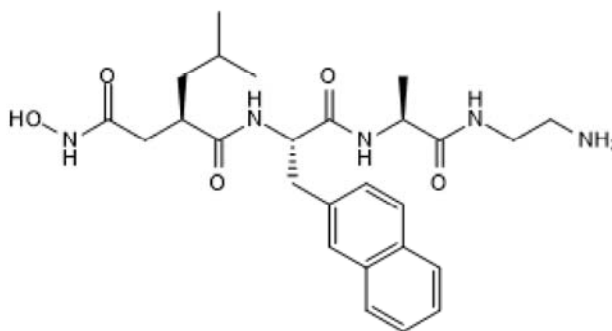
**Batch No.:** 1

CAS Number: 163847-77-6

IUPAC Name: *N*-[(2*R*)-2-[2-(Hydroxyamino)-2-oxoethyl]-4-methyl-1-oxopentyl]-3-(2-naphthalenyl)--alanyl-L-alaninamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>26</sub> H <sub>37</sub> N <sub>5</sub> O <sub>5</sub>
<b>Batch Molecular Weight:</b>	499.6
<b>Physical Appearance:</b>	White lyophilised solid
<b>Net Peptide Content:</b>	67.8%
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 10 mg/ml in DMSO Soluble to 10 mg/ml in PBS
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 97.6% purity
<b>Mass Spectrum:</b>	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

TACE/ADAM-17 and MMP inhibitor. Blocks shedding of TNF from cell membranes. Reduces pain-associated behavior in mice with a constructive mononeuropathy.

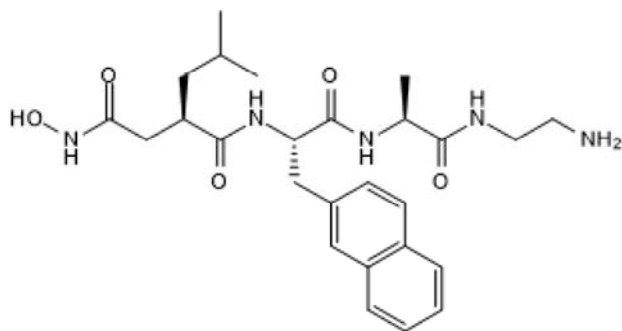
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>26</sub>H<sub>37</sub>N<sub>5</sub>O<sub>5</sub>

Batch Molecular Weight: 499.6

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 10 mg/ml in DMSO

Soluble to 10 mg/ml in PBS

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved. This product is supplied in gross weight.

**Net Peptide Content:** 67.8% (Remaining weight made up of counterions and residual water).

**Counter Ion:** TFA

**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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

**Sommer et al (1997)** A metalloprotease-inhibitor reduces pain associated behavior in mice with experimental neuropathy. *Neurosci. Lett.* **237** 45. PMID: 9406876.

**Mohler et al (1994)** Protection against a lethal dose of endotoxin by an inhibitor of tumour necrosis factor processing. *Nature* **370** 218. PMID: 8028669.

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