

**Product Name:** PD 173212

**Catalog No.:** 3552

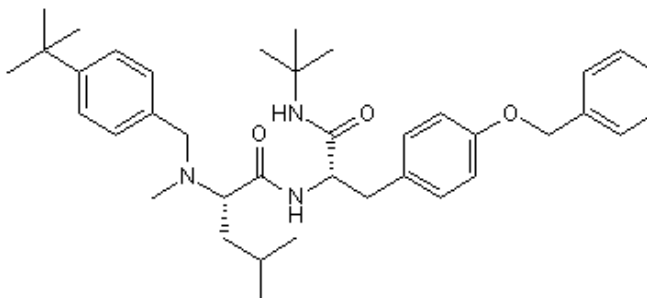
**Batch No.:** 1

CAS Number: 217171-01-2

IUPAC Name: *N*-[[4-(1,1-Dimethylethyl)phenyl]methyl-*N*-methyl-*L*-leucyl-*N*-(1,1-dimethylethyl)-*O*-phenylmethyl)-*L*-tyrosinamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>38</sub>H<sub>53</sub>N<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 599.85  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.58 (Ethyl acetate:Petroleum ether [3:7])  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	76.09	8.91	7.01
Found	75.81	8.73	7.1

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

**Product Name:** PD 173212

**Catalog No.:** 3552

**Batch No.:** 1

CAS Number: 217171-01-2

IUPAC Name: *N*-[[4-(1,1-Dimethylethyl)phenyl]methyl-*N*-methyl-*L*-leucyl-*N*-(1,1-dimethylethyl)-*O*-phenylmethyl-*L*-tyrosinamide

**Description:**

Potent N-type voltage-gated calcium channel blocker (IC<sub>50</sub> = 36 nM). Displays selectivity over K<sup>+</sup>, Na<sup>+</sup> and L-type Ca<sup>2+</sup> channels. Prevents tonic seizures in the audiogenic seizure model in vivo.

**Physical and Chemical Properties:**

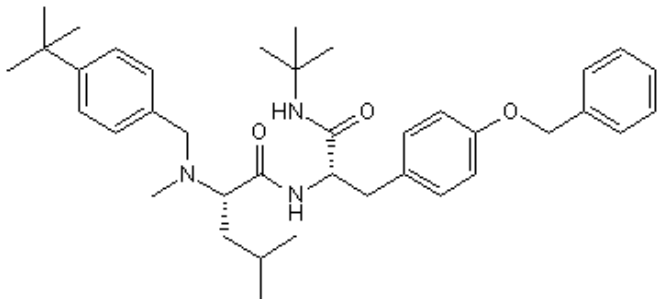
Batch Molecular Formula: C<sub>38</sub>H<sub>53</sub>N<sub>3</sub>O<sub>3</sub>

Batch Molecular Weight: 599.85

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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:**

Hu *et al* (1999) Structure-activity relationships of *N*-methyl-*N*-aralkyl-peptidylamines as novel N-type calcium channel blockers. *Bioorg.Med.Chem.Letts.* **9** 2151.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956