

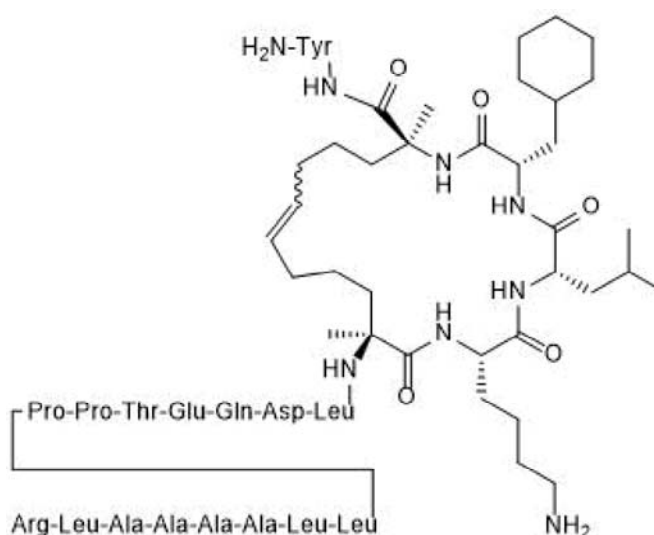
Product Name: ND1-YL2

Catalog No.: 7388

Batch No.: 1

**1. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Batch Molecular Formula:</b>	C <sub>114</sub> H <sub>189</sub> N <sub>27</sub> O <sub>28</sub>
<b>Batch Molecular Weight:</b>	2385.93
<b>Physical Appearance:</b>	White lyophilised solid
<b>Net Peptide Content:</b>	80.9%
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 1 mg/ml in water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	



**2. ANALYTICAL DATA**

<b>HPLC:</b>	Shows 98.2% purity
<b>Mass Spectrum:</b>	Consistent with structure

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

**Product Name:** ND1-YL2

**Catalog No.:** 7388

**Batch No.:** 1

**Description:**

ND1-YL2 is a peptide-based PROTAC<sup>®</sup> Degradator of steroid receptor co-activator 1 (SRC-1; also known as nuclear receptor coactivator 1, NCOA1). ND1-YL2 is composed of a stapled peptide that binds SRC-1 (YL2) joined by a linker to a tetrapeptide that binds UBR box domains. Upon ternary complex formation, SRC-1 is polyubiquitinated and subsequently degraded via the N-degron pathway. This Degradator induces dose-dependent degradation of SRC-1 in the MDA-MB-231 triple negative breast cancer cell line (DC<sub>50</sub> = 10 μM), and binds to the PAS-B domain of SRC-1 (K<sub>i</sub> = 320 nM). ND1-YL2 inhibits MDA-MB-231 cell migration in vitro, and suppresses metast... Please see product datasheet on www.tocris.com for full description.

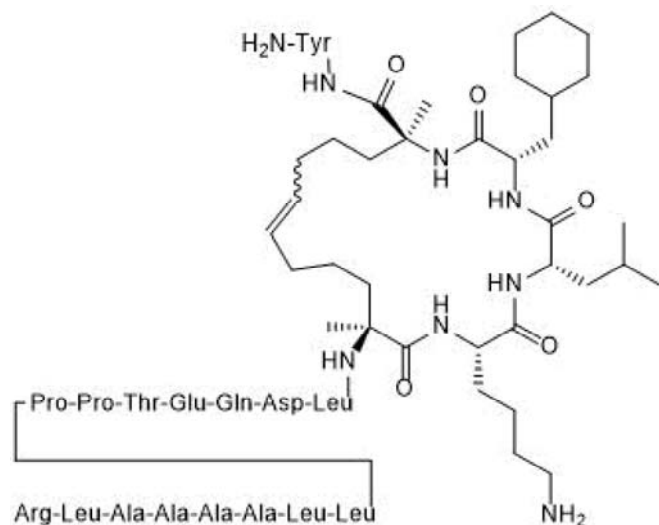
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>114</sub>H<sub>189</sub>N<sub>27</sub>O<sub>28</sub>

Batch Molecular Weight: 2385.93

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**References:**

Lee *et al* (2020) Targeted degradation of transcription co-activator SRC-1 through the N-degron pathway. *Angew.Chem.Int.Ed.* **59** 17548.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

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.

**Net Peptide Content:** 80.9% (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.

**Licensing Information:**

Sold under license from Pohang University of Science and Technology

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