bio-techne
TOCRIS

Print Date: Apr 16th 2024

Certificate of Analysis

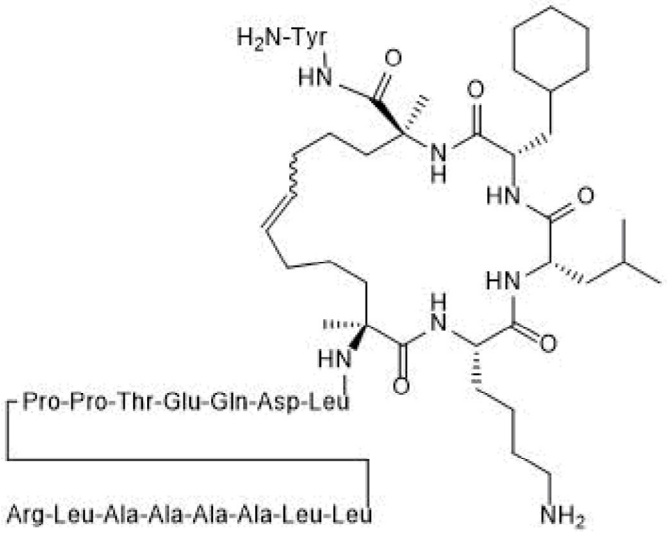
www.tocris.com

Product Name: **ND1-YL2** **Catalog No.: 7388** **Batch No.: 1**

CAS Number: 2582803-80-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{114}H_{189}N_{27}O_{28}$
Batch Molecular Weight:	2385.93
Physical Appearance:	White lyophilised solid
Net Peptide Content:	80.9%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	



2. ANALYTICAL DATA

HPLC:	Shows 98.2% purity
Mass Spectrum:	Consistent with structure

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Product Name: **ND1-YL2** **Catalog No.: 7388** **1**

CAS Number: 2582803-80-1

Description:

ND1-YL2 is a peptide-based Degrader (PROTAC®) 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 Degrader induces dose-dependent degradation of SRC-1 in the MDA-MB-231 triple negative breast cancer cell line (DC_{50} = 10 µM), and binds to the PAS-B domain of SRC-1 (K_i = 320 nM). ND1-YL2 inhibits MDA-MB-231 cell migration in vitro, and suppresses meta... Please see product specific page on www.tocris.com for full description.

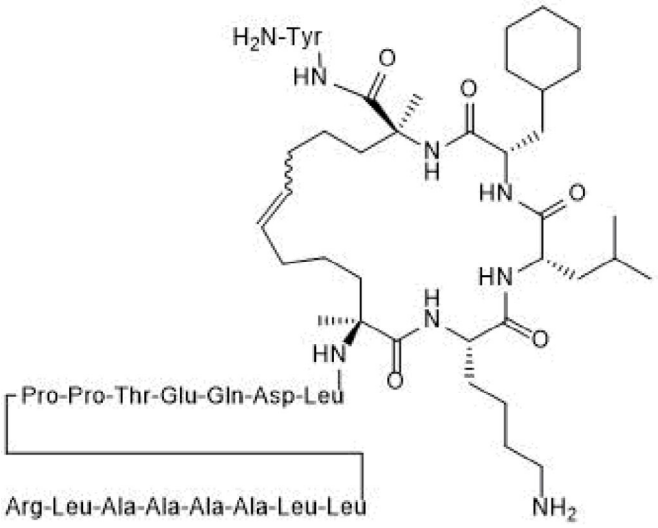
Physical and Chemical Properties:

Batch Molecular Formula: $C_{114}H_{189}N_{27}O_{28}$

Batch Molecular Weight: 2385.93

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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 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

References:

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