

ND1-YL2

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	ND1-YL2 is a peptide-based PROTAC®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 (DC50 = 10 µM), and binds to the PAS-B domain of SRC-1 (Ki = 320 nM). ND1-YL2 inhibits MDA-MB-231 cell migration in vitro, and suppresses metastasis of MDA-MB-231 cells in vivo.
Targets(IC50)	PROTACs

Reference

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

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