

## Lenalidomide-13C5,15N

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Lenalidomide-13C5,15N is a variant of Lenalidomide (T1642) labeled with 15N and 13C. Lenalidomide (T1642) (CC-5013), a derivative of Thalidomide, is an orally active immunomodulatory agent acting as a molecular glue. It serves as a ligand for the E3 ubiquitin ligase cereblon (CRBN), facilitating the selective ubiquitination and degradation of the lymphoid transcription factors IKZF1 and IKZF3 via the CRBN-CRL4 ubiquitin ligase. Notably, Lenalidomide (T1642) (CC-5013) suppresses the growth of mature B cell lymphomas, including multiple myeloma, and stimulates T cells to release interleukin-2 (IL-2).
Targets(IC50)	Apoptosis,Ligands for E3 Ligase,Molecular Glues
In vivo	Lenalidomide was administered at doses of 15, 22.5, and 45 mg/kg via intravenous (IV), intraperitoneal (IP), and oral (PO) routes. Due to solubility limitations in the PBS dosing vehicle, these doses represent the maximum achievable levels. They were generally well tolerated, except for one mouse death among four dosed at 15 mg/kg IV. Importantly, no additional toxicities were noted at IV doses of 15 mg/kg (n=3) or 10 mg/kg (n=45), nor at any other dose levels across the IV, IP, and PO routes.

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