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Cereblon E3 Ubiquitin Ligase Modulating Agent CC-92480

National Cancer Institute

Source

National Cancer Institute. *Cereblon E3 Ubiquitin Ligase Modulating Agent CC-92480*. NCI Thesaurus. Code C146660.

A modulator of the E3 ubiquitin ligase complex containing cereblon (CRL4-CRBN E3 ubiquitin ligase), with potential immunomodulating and antineoplastic activities. Upon administration, cereblon E3 ubiquitin ligase modulating agent CC-92480 specifically binds to cereblon (CRBN), thereby affecting the ubiquitin E3 ligase activity, and targeting certain substrate proteins for ubiquitination. This induces proteasome-mediated degradation of certain transcription factors, some of which are transcriptional repressors in T-cells. This leads to modulation of the immune system, including activation of T-lymphocytes, and downregulation of the activity of other proteins, some of which play key roles in the proliferation of certain cancer cell types. CRBN, the substrate recognition component of the CRL4-CRBN E3 ubiquitin ligase complex, plays a key role in the ubiquitination of certain proteins.