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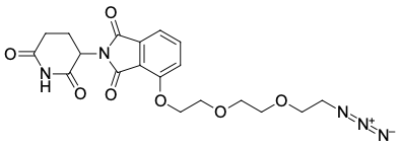
Thalidomide-O-PEG2-azide

http://www.lumiprobe.com/p/thalidomide-o-peg2-azide

Thalidomide-containing building block with PEG2-linker and azide function group, which can be conjugated to alkyne-functionalized linkers and target protein ligands through click chemistry reactions.

Proteolysis targeting chimeras (PROTACs) are cell-permeable heterobifunctional molecules that can remove specific proteins from the cell. One end of such molecule contains a ligand to bind to the target, and the second end recruits the E3 ligase complex. Close proximity results in substrate polyubiquitination and subsequent protein degradation by cellular proteasome.

There are several types of E3 ligases that are practically suitable for such a purpose. Thalidomide is the ligand capable of recruiting Cereblon (CRBN) E3 ligase.



Structure of Thalidomide-O-PEG2-Azide

General properties

Appearance:	off-white solid
Molecular weight:	431.41
Molecular formula:	$C_{19}H_{21}N_5O_7$
Solubility:	good in polar organic solvents: ethyl acetate, THF, DMF; poor in diethyl ether, water
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.