

SB405483

Chemical Properties

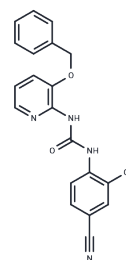
CAS No. :

Formula: C₂₀H₁₆N₄O₃

Molecular Weight: 360.37

Storage: Keep away from direct sunlight
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	SB405483 is a CRBN (cereblon) orthosteric ligand-binding enhancer that promotes the ubiquitination and proteasomal degradation of CRBN substrates (such as CK1 α , Wee1, and IKZF1/3) by stabilizing the CRBN protein conformation and enhancing its binding affinity for substrates. SB405483 can be used in cancer research, such as in multiple myeloma and acute myeloid leukemia.
Targets(IC50)	Ligands for E3 Ligase
In vitro	<p>Methods: MM.1S multiple myeloma cells were treated with SB405483 (1, 10, 50 μM). After 1 hour of treatment, the cells were heated (57°C, 5 min), and soluble CRBN expression was detected by Western blot.</p> <p>Results: SB405483 dose-dependently stabilized endogenous CRBN in MM.1S multiple myeloma cells. [1]</p> <p>Method: HEK293T cells stably expressing Flag-CRBN were treated with SB405483 (0.1-10 μM) for 6 h, followed by Flag immunoprecipitation and Western blot analysis of CRBN ubiquitination.</p> <p>Results: SB405483 dose-dependently inhibited the autoubiquitination of endogenous Flag-tagged CRBN. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7749 mL	13.8746 mL	27.7493 mL
5 mM	0.555 mL	2.7749 mL	5.5499 mL
10 mM	0.2775 mL	1.3875 mL	2.7749 mL
50 mM	0.0555 mL	0.2775 mL	0.555 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dippon VN, et al. Identification of an allosteric site on the E3 ligase adapter cereblon. Nature. Published online January 21, 2026.

Zhang Y, et al. A Novel Paradigm for Targeting Challenging Targets: Advancing Technologies and Future Directions of Molecular Glue Degraders. Molecules. 2026, 31(3): 459.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481