

Cbl-b-IN-16

Chemical Properties

CAS No. :

Formula: C₂₆H₂₇F₃N₆O

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	Cbl-b-IN-16 (compound 31) is an orally active inhibitor of the RING E3 ligase Cbl-b, with an IC ₅₀ of 30 nM. It enhances IL-2 production in human T cells with an EC ₅₀ of 230 nM and exhibits antitumor activity.
Targets(IC ₅₀)	E1/E2/E3 Enzyme
In vitro	Cbl-b-IN-16 modulates the TCR signaling pathway by inhibiting Cbl-b ubiquitination and its transfer to Zap-70, with IC ₅₀ values of 63 nM and 84 nM, respectively. At a concentration of 5 μM and an exposure time of 20 minutes, Cbl-b-IN-16 inhibits Cbl-b phosphorylation via SYK. This compound enhances the TCR signaling pathway by inhibiting effects, leading to an upregulation of pPLCγ1 levels in human T cells, with an EC ₅₀ of 0.61 μM.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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