

LC-04-045

## Chemical Properties

CAS No. :

Formula: C32H28ClN5O3

Molecular Weight: 566.05

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	LC-04-045 is a molecular glue degrader (MGD) of NEK7 (NIMA related kinase 7). This compound effectively degrades NEK7 in MOLT-4 cells, exhibiting a DC50 (half-maximal degradation concentration) of 7 nM and a Dmax (maximum degradation rate) of 90%. LC-04-045 displays high selectivity for NEK7 across the proteome and mediates NEK7 degradation via the ubiquitin-proteasome system (UPS), relying on a degradation motif that includes glycine 57 (G57) in NEK7. Additionally, LC-04-045 effectively inhibits the secretion of IL-1 $\beta$ and IL-18, with IC50 values of 33.03 nM and 32.99 nM, respectively. LC-04-045 is applicable for research in inflammatory diseases.
Targets(IC50)	MAPK,Interleukin

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7666 mL	8.8331 mL	17.6663 mL
5 mM	0.3533 mL	1.7666 mL	3.5333 mL
10 mM	0.1767 mL	0.8833 mL	1.7666 mL
50 mM	0.0353 mL	0.1767 mL	0.3533 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.

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