

## Product Data Sheet

Product Name: dCASP1-55

Cat. No.: GC80880

### Chemical Properties

Cas. No.

Formula C<sub>45</sub>H<sub>54</sub>ClN<sub>7</sub>O<sub>15</sub>

M.Wt 968.4

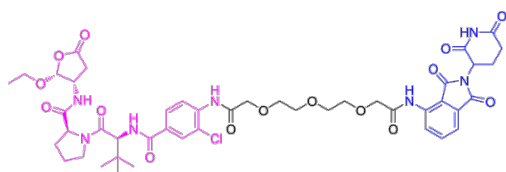
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

dCASP1-55 is a cereblon-dependent caspase-1 (CASP1) PROTAC degrader. dCASP1-55 induces excessive NF-κB activation, apoptosis, and moderate S-phase arrest in leukemic cells. dCASP1-55 suppresses colony formation of leukemic cells. dCASP1-55 can be used for the research of cancer, such as myeloid malignancies and acute myeloid leukemia [1]. (Pink: Caspase-1 ligand; Blue: Cereblon ligand; Black: linker).

In Vitro, dCASP1-55 (25-1000 nM; 0-6 h) selectively degrades CASP1 in THP1, MDL, and AML cells, suppresses their colony formation, induces excessive NF-κB activation, and induces apoptosis,

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and moderate S-phase arrest<sup>[1]</sup>.

### References:

[1]. Uible EE, et al. Scaffolding-dependent CASP1 constrains excessive cell-intrinsic inflammatory signaling in leukemia. *Cell Chem Biol.* 2026;33(1):59-73.e10.

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