

## Product Data Sheet

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Product Name: DD1  
Cat. No.: GC72910

### Chemical Properties

Cas. No. 187585-11-1

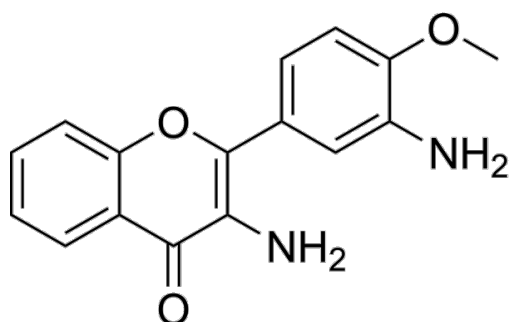
Formula  $C_{16}H_{14}N_2O_3$  M.Wt 282.29

Solubility DMSO : 100 mg/mL (354.25 mM; Need ultrasonic) Storage  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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

DD1, a proteasome inhibitor, targets Bax activation and P70S6K degradation during acute myeloid

**Caution: Product has not been fully validated for medical applications. For research use only.**

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leukemia (AML) apoptosis. DD1 induces apoptosis in the caspase-dependent manner. DD1 induces mitochondrial membrane depolarization and Bad dephosphorylation.

DD1 (20  $\mu$ M; 96 h) shows antiproliferation activity in a dose- and time-dependent manner in U937 cells[1]. DD1 induces cell cycle arrest at G2/M phase and apoptosis[1]. DD1 (10, 20  $\mu$ M; 48 h) induces mitochondrial membrane depolarization, Bax upregulation and Bad dephosphorylation[1]. DD1 (2-20  $\mu$ M; 40 h) shows inhibitor for cmotrypsin-like activity in U937 lysates[1].

### References:

[1]. Marion Piedfer, et al. p70S6 kinase is a target of the novel proteasome inhibitor 3,3'-diamino-4'-methoxyflavone during apoptosis in human myeloid tumor cells. Biochim Biops Acta.2013 Jun;1833(6):1316-28.

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