

Daminozide

Catalog No: tcsc1288



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

1596-84-5

Formula:

$C_6H_{12}N_2O_3$

Pathway:

Epigenetics

Target:

Histone Demethylase

Purity / Grade:

>98%

Solubility:

DMSO : 106.67 mg/mL (665.98 mM; Need warming)

Observed Molecular Weight:

160.17

Product Description

Daminozide(DMASA; DIMG; B 995), a plant growth regulator, selectively inhibits the KDM2/7 JmjC subfamily.

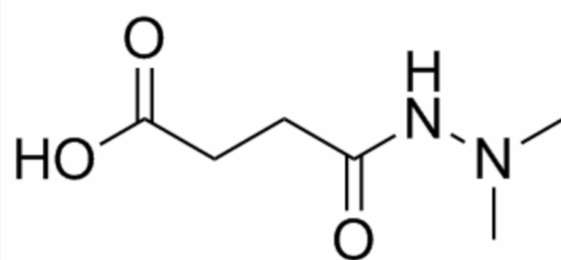
IC50 Value:

Target: KDM2/7 JmjC

Inhibition of shoot elongation in dwarf and tall peas by the 1,1-dimethylhydrazide of succinic acid (B-995) was correlated with the inhibition of the oxidation of tryptamine-2-C(14) to indoleacetaldehyde-2-C(14) in homogenates prepared from epicotyls of young plants treated with B-995. The growth-retarding action of B-995 is attributed to the formation of 1,1-dimethylhydrazine in vivo. This hydrazine strongly inhibited tryptamine oxidation by pea epicotyl homogenates[1]. Daminozide (N-(dimethylamino)succinamic acid, 160 Da), a plant growth regulator, selectively inhibits the KDM2/7 JmjC subfamily[2].

in vitro: Essential oil content increased with increasing levels of gibberellins and decreased when gibberellin biosynthesis was blocked with daminozide. With increasing levels of gibberellins, 1,8-cineole and camphor contents increased. Daminozide blocked the accumulation of alpha- and beta-thujone.[3].

in vivo:



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