

Product Data Sheet

Product Name: Apoptosis Inhibitor

Cat. No.: GC10160

Chemical Properties

Cas. No. 54135-60-3

Chemical Name 2-[(2,6-dioxocyclohexyl)methyl]cyclohexane-1,3-dione

SMILES C1CC(=O)C(C(=O)C1)CC2C(=O)CCCC2=O

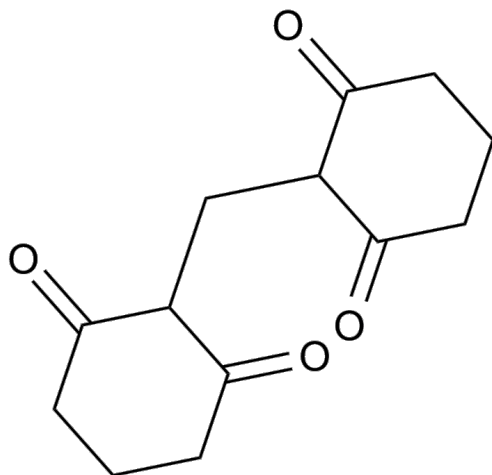
Formula $C_{13}H_{16}O_4$ M.Wt 236.3

Solubility $\geq 9.1\text{mg/mL}$ in DMSO 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

M50054, 2,2'-methylenebis (1,3-cyclohexanedione), is a novel inhibitor of apoptosis. [1]

In human Fas-expressing WC8 cells, M50054 inhibited apoptosis by soluble human Fas ligand in vitro cell death assay. M50054 inhibited the apoptotic U937 cell death which is a human monocytic leukemic cell line, induced by anticancer agents such as etoposide. M50054 inhibited apoptotic

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

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characters such as DNA phosphatidylserine and fragmentation exposure in these cells. These anti-apoptotic effects were dependent on inhibition of caspase-3 activation. Additionally, M50054 significantly inhibited anti-Fas-antibody-induced elevation of plasma aspartate aminotransferase and alanine aminotransferase. Alopecia (hair loss) symptoms were also significantly improved with topical treatment with M50054. M50054 inhibits apoptosis induced by a variety of stimuli via inhibition of caspase-3 activation, and may thus be effective for hepatitis and chemotherapy-induced alopecia. [1]

Reference:

[1].Tsuda T, Ohmori Y, Muramatsu H et al. Inhibitory effect of M50054, a novel inhibitor of apoptosis, on anti-Fas-antibody-induced hepatitis and chemotherapy-induced alopecia.Eur J Pharmacol. 2001 Dec 14;433(1):37-45.

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