

Product Data Sheet

Product Name: 3,4-Dihydroquinolin-2(1H)-one

Cat. No.: GC46557

Chemical Properties

Cas. No. 553-03-7

SMILES O=C1NC2=C(CC1)C=CC=C2

Formula C₉H₉NO

M.Wt 147.2

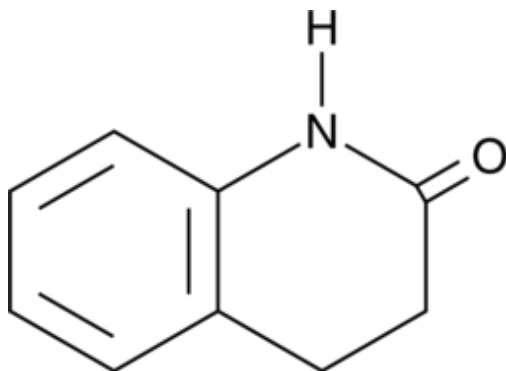
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:6): 0.14 mg/ml

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

3,4-Dihydroquinolin-2(1H)-one is a building block.^{1,2} It has been used in the synthesis of compounds with antidepressant and anticonvulsant activities, as well as dual ligands of sigma (σ) receptors and the NMDA receptor GluN2b subunit that have antioxidant and neuroprotective properties.

1. Deng, X.-Q., Song, M.-X., Zheng, Y., et al. Design, synthesis and evaluation of the antidepressant and anticonvulsant activities of triazole-containing quinolinones. *Eur. J. Med. Chem.* 73:217-224 (2014)

2. Zampieri, D., Fortuna, S., Calabretti, A., et al. Discovery of new potent dual sigma receptor/GluN2b

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

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ligands with antioxidant property as neuroprotective agents Eur. J. Med. Chem. 180268-282(2019)

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