

Product Data Sheet

Product Name: TIQ-A
Cat. No.: GC45057

Chemical Properties

Cas. No. 420849-22-5

SMILES O=C1NC2=C(C=CS2)C3=C1C=CC=C3

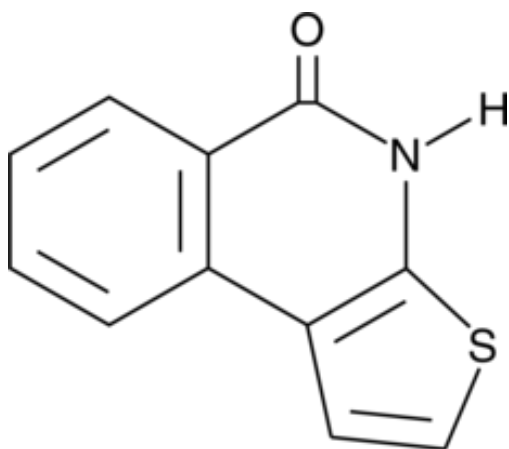
Formula C₁₁H₇NOS M.Wt 201.2

Solubility DMF: 15 mg/ml, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:8): 0.1 mg/ml, DMSO: 10 mg/ml, Ethanol: 0.5 mg/ml

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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Poly(ADP-ribose) polymerase 1 (PARP1) is a critical DNA repair enzyme involved in DNA single-strand break repair via the base excision repair pathway. PARP1 is triggered by DNA damage and its excessive activation has been proposed as a causative factor in many pathological conditions including ischemia and reperfusion injury, asthma-related inflammation, and atherogenesis. TIQ-A is a PARP1 inhibitor (IC₅₀ = 450 nM in cultured mouse cortical neurons). It displays neuroprotective effects in cultured mouse cortical neurons injured by oxygen-glucose deprivation (IC₅₀ = 0.15 μM).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

TIQ-A has been used to inhibit eosinophilic infiltration into airways of OVA-challenged mice and to induce the regression of atherosclerotic plaques in high-fat fed apolipoprotein E(-/-) mice.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA