

Product Data Sheet

Product Name: Ischemin
Cat. No.: GC79146

Chemical Properties

Cas. No. 1357059-00-7

Formula $C_{15}H_{17}N_3O_4S$ M.Wt 335.38

Solubility 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

Ischemin is a CBP bromodomain inhibitor that inhibits p53 interaction with CBP and transcriptional activity in cells. Ischemin inhibits p53 -induced p21 activation with an IC_{50} value of 5 μ M. Ischemin also prevents apoptosis in ischemic cardiomyocytes. Ischemin can be used in the study of cardiovascular diseases (such as myocardial ischemia) [1].

In Vitro, Ischemin (50, 100 μ M; 24 h) inhibits p53 activation on DNA damaging stress in U2OS cells [1]. Ischemin (10 μ M; 3 days) blocks apoptosis in cardiomyocytes by inhibiting caspase 3/7

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

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activity^[1]. Ischemin inhibits p53 cellular signaling pathways in U2OS cells ^[1].

References:

[1]. Borah JC, et al. A small molecule binding to the coactivator CREB-binding protein blocks apoptosis in cardiomyocytes. Chem Biol. 2011 Apr 22;18(4):531-41.

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