

Product Data Sheet

Product Name: IQ 1
Cat. No.: GC10910

Chemical Properties

Cas. No. 331001-62-8

Chemical Name (E)-2-(2-(4-acetylphenyl)hydrazono)-2-(3,3-dimethyl-3,4-dihydroisoquinolin-1-yl)acetamide

SMILES O=C(/C(C1=NC(C)(C)CC2=CC=CC=C21)=N/NC3=CC=C(C(C)=O)C=C3)N

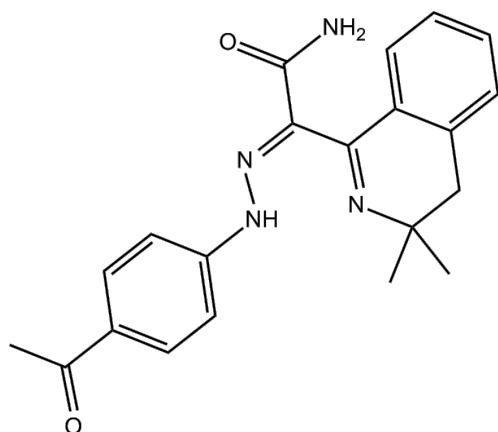
Formula $C_{21}H_{22}N_4O_2$ M.Wt 362.42

Solubility DMF: 30 mg/ml, DMSO: 25 mg/ml, Ethanol: 10 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

IQ 1 has many functions such as decreasing Wnt-stimulated phosphorylation, maintaining the pluripotency of murine ESCs, preventing PP2A/Nkd interaction and so on. IQ 1 maintains the pluripotency of murine ESCs in long-term culture in a Wnt-dependent manner. IQ 1 decreased Wnt-stimulated phosphorylation of p300 at Ser-89. IQ-1 binds to serine/threonine phosphatase PP2A and prevents PP2A/Nkd interaction. The binding of IQ 1 to PR72/130 leads to decreased phosphorylation

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

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of the coactivator protein p300 at Ser-89. IQ 1 thereby diminishes the β -catenin/p300 interaction and prevents β -catenin coactivator switching from CBP to p300.

References:

[1]. Miyabayashi T et al. Wnt/beta-catenin/CBP signaling maintains long-term murine embryonic stem cell pluripotency. Proc Natl Acad Sci U S A, 2007 Mar 27, 104(13):5668-73.

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