

Product Name: JLK 6

Catalog No.: 2677

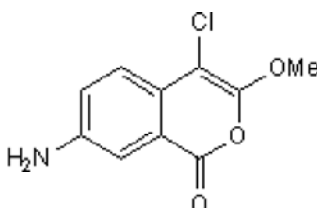
Batch No.: 1

CAS Number: 62252-26-0

IUPAC Name: 7-Amino-4-chloro-3-methoxy-1*H*-2-benzopyran

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₈ClNO₃
Batch Molecular Weight: 225.63
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Ethyl acetate:Petroleum ether [1:3])
Melting Point: Between 168 - 170°C
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 53.23 | 3.57 | 6.2 |
| Found | 53.18 | 3.57 | 6.03 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Inhibitor of γ -secretase that selectively inhibits β APP cleavage without affecting other γ -secretase-mediated pathways. Prevents recovery of A β 40 and A β 42 from HEK293 cell overexpressing wild-type or Swedish-mutated β APP (IC_{50} ~ 30 μ M) but displays no effect on Notch cleavage and Notch-mediated intracellular signaling. Displays no activity on BACE1, BACE2, α -secretase, the proteasome or GSK3 β .

Physical and Chemical Properties:

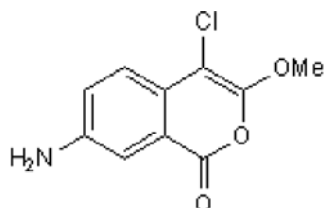
Batch Molecular Formula: C₁₀H₈ClNO₃

Batch Molecular Weight: 225.63

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Hellstrom et al (2007) Dll4 signalling through Notch1 regulates formation of tip cells during angiogenesis. *Nature* **445** 776. PMID: 17259973.

Petit et al (2003) JLK isocoumarin inhibitors: selective γ -secretase inhibitors that do not interfere with Notch pathway in vitro or in vivo. *J.Neurosci.Res.* **74** 370. PMID: 14598313.

Petit et al (2001) New protease inhibitors prevent γ -secretase-mediated production of A β 40/42 without affecting Notch cleavage. *Nat.Cell.Biol.* **3** 507. PMID: 11331880.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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