

**Product Name:** JLK 6

**Catalog No.:** 2677

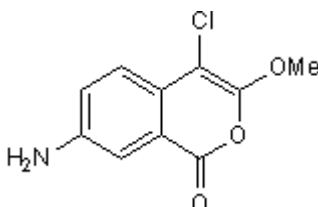
**Batch No.:** 1

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:** C<sub>10</sub>H<sub>8</sub>ClNO<sub>3</sub>  
**Batch Molecular Weight:** 225.63  
**Physical Appearance:** Yellow powder  
**Solubility:** DMSO to 100 mM  
 ethanol to 25 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.32 (Ethyl acetate:Petroleum ether [1:3])  
**Melting Point:** Between 168 - 170°C  
**HPLC:** Shows >99% purity  
**<sup>1</sup>H 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  $\gamma$ -secretase that selectively inhibits  $\beta$ APP cleavage without affecting other  $\gamma$ -secretase-mediated pathways. Prevents recovery of A $\beta$ 40 and A $\beta$ 42 from HEK293 cell overexpressing wild-type or Swedish-mutated  $\beta$ APP (IC<sub>50</sub> ~ 30  $\mu$ M) but displays no effect on Notch cleavage and Notch-mediated intracellular signaling. Displays no activity on BACE1, BACE2,  $\alpha$ -secretase, the proteasome or GSK3 $\beta$ .

**Physical and Chemical Properties:**

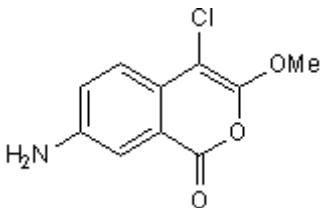
Batch Molecular Formula: C<sub>10</sub>H<sub>8</sub>ClNO<sub>3</sub>

Batch Molecular Weight: 225.63

Physical Appearance: Yellow powder

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

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

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

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

**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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