

**Product Name:** IQ 3

**Catalog No.:** 4550

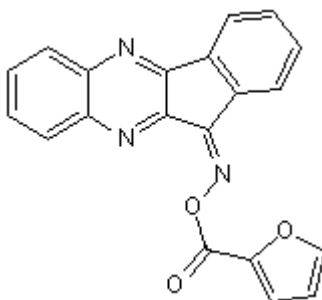
**Batch No.:** 1

**CAS Number:** 312538-03-7

**IUPAC Name:** 11*H*-Indeno[1,2-*b*]quinoxalin-11-one O-(2-furanylcarbonyl)oxime

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 341.32  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.21 (Ethyl acetate:Petroleum ether [1:2])  
**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.38	3.25	12.31
Found	70.2	3.18	12.37

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

**Product Name:** IQ 3

**Catalog No.:** 4550

**Batch No.:** 1

**CAS Number:** 312538-03-7

**IUPAC Name:** 11*H*-Indeno[1,2-*b*]quinoxalin-11-one O-(2-furanylcarbonyl)oxime

**Description:**

Selective JNK3 inhibitor ( $K_d$  values are 66, 240 and 290 nM for JNK3, JNK1 and JNK2 respectively). Inhibits NF- $\kappa$ B/AP1 transcriptional activity in THP1-Blue cells ( $IC_{50}$  = 1.4  $\mu$ M). Also inhibits TNF- $\alpha$  and IL-6 production in vitro.

**Physical and Chemical Properties:**

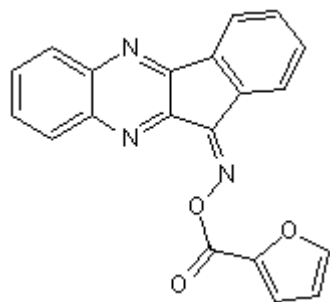
Batch Molecular Formula:  $C_{20}H_{11}N_3O_3$

Batch Molecular Weight: 341.32

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Schepetkin et al** (2012) Identification and characterization of a novel class of c-Jun N-terminal kinase inhibitors. *Mol.Pharmacol.* **81** 832. PMID: 22434859.

**Storage:** Store at +4°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 20 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.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

**R&D**  
SYSTEMS®