

Product Name: IQ 1S

Catalog No.: 5575

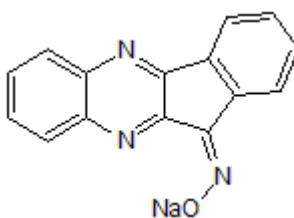
Batch No.: 1

CAS Number: 1421610-21-0

IUPAC Name: 11*H*-Indeno[1,2-*b*]quinoxalin-11-one oxime sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₈N₃NaO.½H₂O
Batch Molecular Weight: 278.24
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.54 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.75	3.26	15.1
Found	64.42	3.37	14.76

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

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IUPAC Name: 11*H*-Indeno[1,2-*b*]quinoxalin-11-one oxime sodium salt

Description:

JNK inhibitor (K_d values are 87, 360 and 390 nM for JNK3, JNK2 and JNK1, respectively). Inhibits LPS-induced proinflammatory cytokine and nitric oxide production in vitro. Attenuates collagen-induced arthritis severity and inhibits murine delayed-type hypersensitivity in vivo. Anti-inflammatory and immunosuppressive. Also releases NO upon metabolism by liver microsomes.

Physical and Chemical Properties:

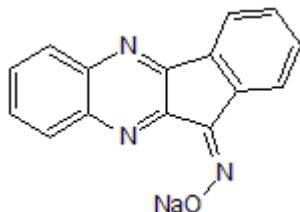
Batch Molecular Formula: $C_{15}H_8N_3NaO \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 278.24

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Atochin *et al* (2016) A novel dual NO-donating oxime and c-Jun N-terminal kinase inhibitor protects against cerebral ischemia-reperfusion injury in mice. *Neurosci.Lett.* **618** 45. PMID: 26923672.

Schepetkin *et al* (2015) Anti-Inflammatory effects and joint protection in collagen-induced arthritis after treatment with IQ-1S, a selective c-Jun N-terminal kinase Inhibitor. *J.Pharmacol.Exp.Ther.* **353** 505. PMID: 25784649.

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 -20°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 with gentle warming

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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