



## Product Information

### JNK-c-Jun inhibitor IQ 3, Purity $\geq 98\%$

**Cat. No.:** X23-10-ZQ943

**Size:** 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

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

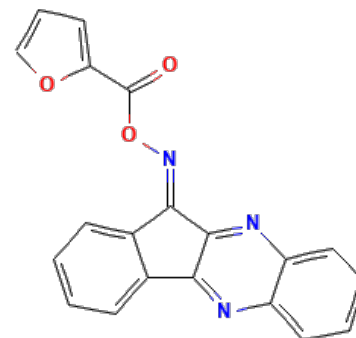
**Compound CID:** 5405540

**Synonym:** 312538-03-7; IQ-3; [(E)-Indeno[1,2-b]quinoxalin-11-ylideneamino]

furan-2-carboxylate; 11*H*-Indeno[1,2-b]quinoxalin-11-one O-(2-furanylcarbonyl)oxime;

JNK-c-Jun inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

|                          |                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | IQ 3, soluble in DMSO and insoluble in ethanol and water, is an inhibitor of c-jun N-terminal kinase (JNK) signaling. It targets CK1 $\delta$ , JNK1, JNK2, and JNK3. |
| <b>Molecular Weight</b>  | 341.32                                                                                                                                                                |
| <b>Molecular Formula</b> | C <sub>20</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>                                                                                                         |
| <b>Targets</b>           | CK1 $\delta$ : 0.56 $\mu$ M (Kd); JNK1: 0.24 $\mu$ M (Kd); JNK2: 0.29 $\mu$ M (Kd); JNK3: 0.066 $\mu$ M (Kd)                                                          |
| <b>IUPAC Name</b>        | [(E)-Indeno[1,2-b]quinoxalin-11-ylideneamino] furan-2-carboxylate                                                                                                     |
| <b>InChI</b>             | InChI=1S/C20H11N3O3/c24-20(16-10-5-11-25-16)26-23-18-13-7-2-1-6-12(13)17-19(18)22-15-9-4-3-8-14(15)21-17/h1-11H/b23-18+                                               |
| <b>InChI Key</b>         | WBSWWONMTZEOGS-PTGBLXJZSA-N                                                                                                                                           |
| <b>Canonical SMILES</b>  | C1=CC=C2C(=C1)C3=NC4=CC=CC=C4N=C3C2=NOC(=O)C5=CC=CO5                                                                                                                  |
| <b>Isomeric SMILES</b>   | C1=CC=C\2C(=C1)C3=NC4=CC=CC=C4N=C3/C2=N/OC(=O)C5=CC=CO5                                                                                                               |
| <b>Form</b>              | Lyophilized powder                                                                                                                                                    |
| <b>Purity</b>            | $\geq 98\%$                                                                                                                                                           |
| <b>Solubility</b>        | DMSO: 9 mg/mL (26.36 mM); Water: Insoluble; Ethanol: Insoluble                                                                                                        |
| <b>Identity</b>          | Confirmed by NMR/HPLC/MS.                                                                                                                                             |
| <b>Stability</b>         | The product is stable for three years when stored at the recommended temperature in lyophilized powder.                                                               |
| <b>Applications</b>      | IQ 3 can be utilized to study molecular pathways involving protein kinases inhibited by IQ 3.                                                                         |
| <b>Storage</b>           | Store at -20°C.                                                                                                                                                       |



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