



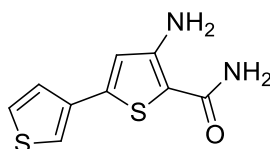
**Catalog # 10-1054**

**SC-514**

354812-17-2

5-(Thien-3-yl)-3-aminothiophene-2-carboxamide

Lot # X101029



Reversible, competitive inhibitor of IKK2 ( $IC_{50} = 11.2 \mu M$ ). Has not been demonstrated to inhibit other IKK isoforms, or other kinases. Displays dose-dependent inhibition of the transcription of  $NF-\kappa B$  dependent genes in cell culture<sup>1</sup>.

- 1) Kishore *et al.* (2003), *A selective IKK-2 inhibitor blocks NF-kappa B-dependent gene expression in interleukin-1 beta-stimulated synovial fibroblasts*; J. Biol. Chem., **278** 32861

#### **PHYSICAL DATA**

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight:      | 224.30                                                                                                                                         |
| Molecular Formula:     | C <sub>9</sub> H <sub>8</sub> N <sub>2</sub> OS <sub>2</sub>                                                                                   |
| Purity:                | 98% by TLC [5% methanol in methylene chloride; $R_f = 0.27$ ]<br>NMR: (Conforms)                                                               |
| Solubility:            | DMSO ( >25 mg/ml)                                                                                                                              |
| Physical Description:  | Yellow solid                                                                                                                                   |
| Storage and Stability: | Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months. |

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