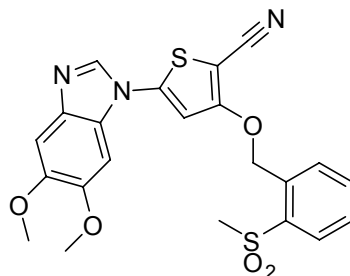


**5-(5,6-Dimethoxy-1*H*-benzimidazol-1-yl)-3-[[2-(methylsulfonyl)phenyl]methoxy]-2-thiophenecarbonitrile** - potent and selective inhibitor of IKK- $\epsilon$  kinase



Chemical Formula: C<sub>22</sub>H<sub>19</sub>N<sub>3</sub>O<sub>5</sub>S<sub>2</sub>  
Molecular Weight: 469.53

Ref.: Bamborough et al. **5-(1*H*-Benzimidazol-1-yl)-3-alkoxy-2-thiophenecarbonitriles as potent, selective, inhibitors of IKK- $\epsilon$  kinase.** *Bioorganic & Medicinal Chemistry Letters* (2006), 16, 6236-6240  
The identification and hit-to-lead exploration of a novel, potent and selective series of substituted benzimidazole-thiophene carbonitrile inhibitors of IKK- $\epsilon$  kinase is described. A 2-thiophenecarbonitrile (CAS RN 862812-98-4) was identified with an IKK- $\epsilon$  enzyme potency of pIC<sub>50</sub> 7.4, and has a highly encouraging wider selectivity profile, including selectivity within the IKK kinase family.

OTAVA catolg no.	CAS RN	Amount	Delivery time	Purity
7020402324	862812-98-4	1 mg 5 mg 25 mg 100 mg	In-stock In-stock In-stock In-stock	≥ 95% by HPLC, <sup>13</sup> C NMR & <sup>1</sup> H NMR