

Product Datasheet

K252c

Catalog No. **BP-02394** · CAS **85753-43-1** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-14**

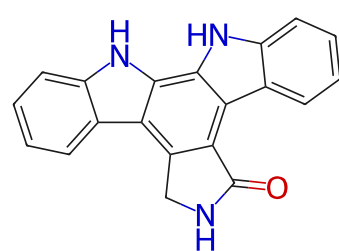
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Target Beta-lactamase; PKC; Bacterial; Apoptosis	Research area Infection; Cancer
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Molecular formula **C₂₀H₁₃N₃O**

Molecular weight **311.3367**

STRUCTURE



DESCRIPTION

K-252c, a staurosporine analog isolated from *Nocardiosis* sp., is a cell-permeable PKC inhibitor, with an IC₅₀ of 2.45 μM. K-252c induces apoptosis in human chronic myelogenous leukemia cancer cells. K-252c also inhibits β-lactamase, chymotrypsin, and malate dehydrogenase.

BIOLOGICAL ACTIVITY

K-252c is a inhibitor of protein kinase C (IC₅₀ = 2.45 μM) that displays ~ 10-fold selectivity over protein kinase A (IC₅₀ = 25.7 μM). Also inhibits β-lactamase, malate dehydrogenase and chymotrypsin (IC₅₀ values are 8, 8 and 10 μM respectively). Exhibits antiviral activity against GCV-sensitive and -resistant strains of human cytomegalovirus (HCMV) (IC₅₀ values range from 0.13 - 0.32 μM). Shows no activity against herpes simplex virus (HSV).

SOLUBILITY

soluble in DMSO

In vitro DMSO 7.78 mg/mL

REFERENCES

- [1]. Pereira, E.R., et al. Structure-activity relationships in a series of substituted indolocarbazoles: Topoisomerase I and protein kinase C inhibition and antitumoral and antimicrobial properties J. Med. Chem. 39(22), 4471-4477 (1996).
- [2]. Liu, R., et al. Two indolocarbazole alkaloids with apoptosis activity from a marine-derived actinomycete Z2039-2 Arch. Pharm. Res. 30(3), 270-274 (2007).
- [3]. Zimmermann, A., et al. Indolocarbazoles exhibit strong antiviral activity against human cytomegalovirus and are potent inhibitors of the pUL97 protein kinase Antiviral Res. 48(1), 49-60 (2000).

[4]. McGovern, S.L., et al. Kinase inhibitors: Not just for kinases anymore *Journal of Medicinal Chemistry* 46, 1478-1483 (2003).

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

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