
Product Data Sheet

Product Name: KRIBB3
Cat. No.: GC18909

Chemical Properties

Cas. No. 129414-88-6

Chemical Name 4-ethyl-5-methoxy-2-[4-(4-methoxyphenyl)-5-isoxazolyl]-phenol

SMILES OC1=CC(OC)=C(CC)C=C1C2=C(C3=CC=C(OC)C=C3)C=NO2

Formula C₁₉H₁₉NO₄ M.Wt 325.4

Solubility 25mM in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

KRIBB3 is an Hsp27 and microtubule inhibitor that inhibits migration and invasion of MDA-MB-231 cells in vitro in an Hsp27-dependent manner.[1] [2] It inhibits protein kinase C (PKC) phosphorylation of Hsp27 but not phospholipase Cβ3, indicating KRIBB3 interaction with Hsp27 is preventing its phosphorylation. KRIBB3 (1-100 μM) inhibits growth of HCT116, HCT15, and MDA-MB-231 cells in an Hsp27-independent and concentration-dependent manner. It induces HCT116 cell cycle arrest in the G2/M phase via formation of the Mad2/p55CDC inhibitory complex and Bax activation of apoptosis.[2] KRIBB3 also inhibits microtubule polymerization in HCT116 cells. In vivo, KRIBB3 (50-100 mg/kg) reduces tumor volume in an HCT116 mouse xenograft model.

Reference:

[1]. Shin, K.D., Lee, M.-Y., Shin, D.-S., et al. Blocking tumor cell migration and invasion with biphenyl isoxazole derivative KRIBB3, a synthetic molecule that inhibits Hsp27 phosphorylation. J. Biol. Chem. 280(50), 41439-41448 (2005).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[2]. Shin, K.D., Yoon, Y.J., Kang, Y.-R., et al. KRIBB3, a novel microtubule inhibitor, induces mitotic arrest and apoptosis in human cancer cells. *Biochem. Pharmacol.* 75(2), 383-394 (2008).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA