BioVision

Product: IPA-3

ALTERNATE NAME: 1,1'-dithiobis-2-naphthalenol

CATALOG #: 2647-5, 25

AMOUNT: 5 mg, 25 mg

ОН

STRUCTURE:

MOLECULAR FORMULA: C₂₀H₁₄O₂S₂

MOLECULAR WEIGHT: 350.45

CAS NUMBER: 42521-82-4

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (~25 mg/ml)

PURITY: >95%

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: IPA-3 is a cell-permeable allosteric inhibitor of PAK1 (tha p21-

activated kinase 1) that is non-competitive with respect to ATP binding ($IC_{50} = 2.5 \,\mu\text{M}$). It does not, however, inhibit the activity of PAK1 that has been pre-activated with Cdc42. IPA-3 binds covalently to the PAK1 regulatory domain (apparent $K_d = 1.9 \, \mu\text{M}$) and prevents binding to the upstream activator Cdc42. Potential anti-tumor agent. Since Pak1 is also implicated as a critical downstream effector of protein kinase C, IPA-3 may prevent differentiation in some tissue

development.

REFERENCE: Deacon, S.W., et al. (2008). Chem. Biol. **15**, 322-331.

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

LIMK1 Antibody (Cat. No. 3433-100) LIMK2 Antibody (Cat. No. 3584-100) PAK1 Antibody (Cat. No. 3908-100) PAK1 Antibody (Cat. No. 3248-100)

FOR RESEARCH USE ONLY! Not to be used on humans.

Tel: 408-493-1800 |

www.biovision.com |

Fax: 408-493-1801

tech@biovision.com