

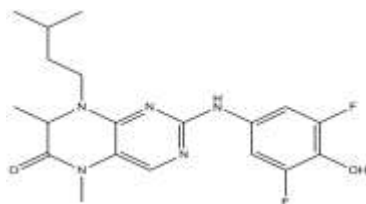
BI-D1870

ALTERNATE NAME: 2-[(3,5-Difluoro-4-hydroxyphenyl)amino]-7,8-dihydro-5,7-dimethyl-8-(3-methylbutyl)-6(5H)-pteridone

CATALOG #: 1924-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₂₃F₂N₅O₂

MOLECULAR WEIGHT: 391.42

CAS NUMBER: 501437-28-1

APPEARANCE: Pale orange solid

SOLUBILITY: DMSO (>25 mg/ml)

PURITY: ≥98% by TLC

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

DESCRIPTION: Cell-permeable. ATP-competitive inhibitor of the four isoforms of ribosomal S6 kinase (p90 RSK) (IC₅₀'s at 100 μM ATP: RSK1 = 31 nM, RSK2 = 24 nM, RSK3 = 18 nM, RSK4 = 15 nM). Does not significantly inhibit 10 other AGC kinases, and over 40 other protein kinases at 100X concentrations. In addition, BI-D1870 completely prevents PMA-induced TSC2 (a regulator of mTORC1) phosphorylation at Ser¹⁷⁹⁸.

REFERENCE: Fonseca, B.D., *et al.* (2011). *J. Biol. Chem.* **286**, 27111-27122; Sapkota, G.P., *et al.* (2007). *Biochem. J.* **410** (Pt1), 29-38.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

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

RELATED PRODUCTS:

- BEZ235 (NVP-BEZ235) (Cat. No. 1626-5, 25)
- GDC-0941 bismesylate (Cat. No. 1623-1, 5)
- Deforolimus (Cat. No. 1587-5, 25)
- DiscoveryPak™ PI 3-Kinase Inhibitor Panel (Cat. No. K856-5)
- DiscoveryPak™ PI 3-K/Akt/mTOR Pathway Signaling Inhibitor Panel (Cat. No. K856-5)
- Everolimus (Cat. No. 1917-5, 25)
- IC87114 (Cat. No. 1661-1)
- LY 294002 (Cat. No. 1667-5, 25)
- mTOR Inhibitor, Ku-0063794 (Cat. No. 1779-1,5)
- PI-103 (Cat. No. 1728-1,5)
- PI3-Kγ Inhibitor, AS-605240 (Cat. No. 1780-1,5)
- PP242 (Cat. No. 1658-1)
- Rapamycin (Cat. No. 1568-5, 50)
- EZSolution™ Rapamycin (Cat. No. 1746-5)
- Temsirolimus (Cat. No. 1600-5, 25)
- TGX-115 (Cat. No. 1660-1)
- TGX-221 (Cat. No. 1781-1,5)
- Wortmannin (Cat. No. 1670-1)