

BI-D1870

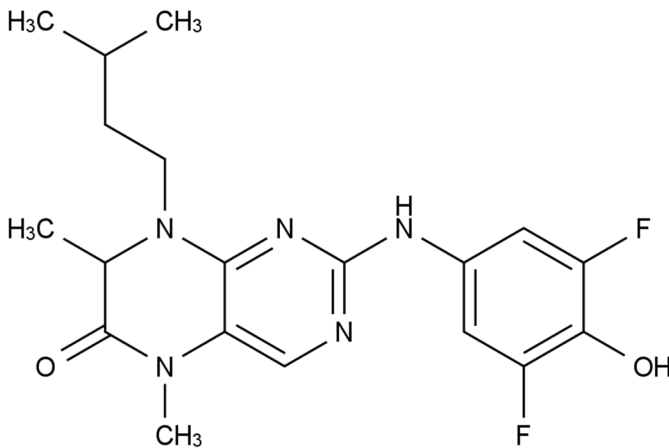
SYN-1020

2-(3,5-difluoro-4-hydroxyphenylamino)-8-isopentyl-5,7-dimethyl-7,8-dihydropteridin-6(5H)-one

CAS Registry No.: 501437-28-1

Smiles String:

CC1C(=O)N(c2cnc(nc2N1CCC(C)C)Nc3cc(c(c3)F)O)FC



Molecular Weight: 391.42

Molecular Formula: C₁₉H₂₃F₂N₅O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

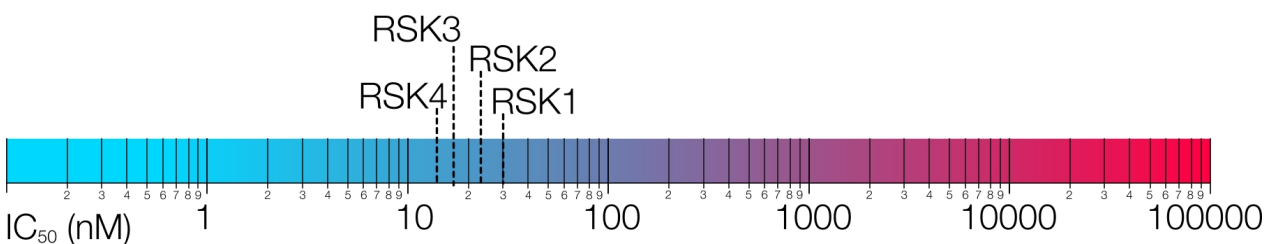
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

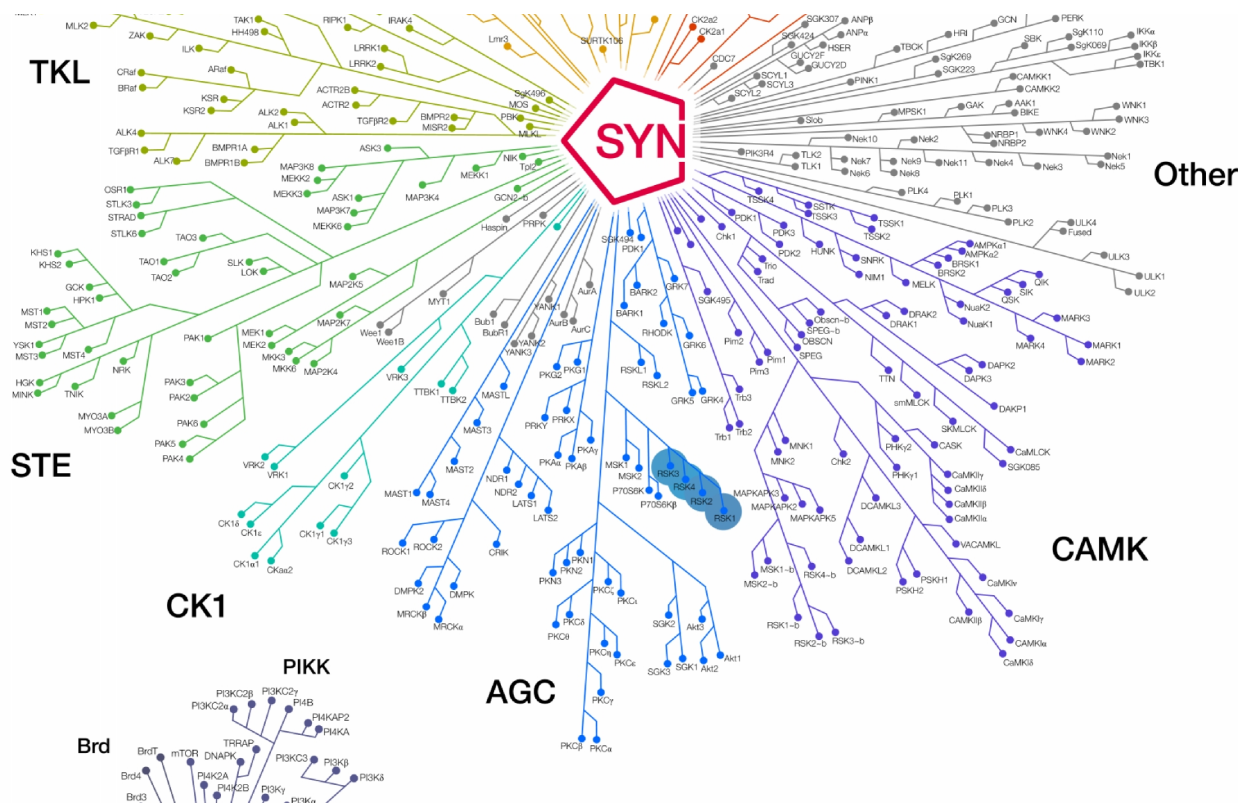
Description:

BI-D1870 is a small molecule, specific inhibitor of p90 RSK (ribosomal S6 kinase) isoforms RSK1, RSK2, RSK3 and RSK4, both in vitro and in vivo, with IC₅₀s are 31 nM, 24 nM, 18 nM, 15 nM, respectively. It shows a 10- to 100-fold selectivity for RSK over MST2, GSK-3 β, MARK3, CK1 and Aurora B.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:

Ambient

Storage:

2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

DMSO 78mg/mL, Ethanol <1mg/mL

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.3915	3.9150	7.8300	19.5750

References

1. Sapkota GP, Cummings L, Newell FS, Armstrong C, Bain J, Frodin M, Grauert M, Hoffmann M, Schnapp G, Steegmaier M, Cohen P, Alessi DR . BI-D1870 is a specific inhibitor of the p90 RSK (ribosomal S6 kinase) isoforms in vitro and in vivo. Biochem J. 2007 Jan 1;401(1):29-38.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)