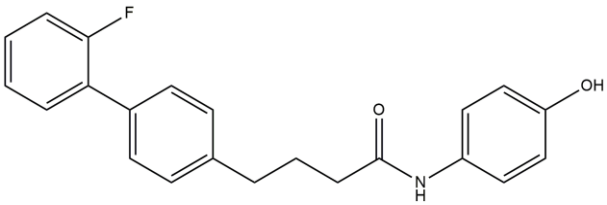
CMPD-1

02/20

ALTERNATE NAMES: 4-[4-(2-fluorophenyl)phenyl]-N-(4-hydroxyphenyl)butanamide; 2'-FLUORO-N-(4-HYDROXYPHENYL)-[1,1'-BIPHENYL]-4-BUTANAMIDE; Mitogen-activated protein kinase-activated protein kinase 2a Inhibitor; MK2a Inhibitor

CATALOG #:
B2991-1 1 mg
B2991-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{22}H_{20}FN_0O_2$

MOLECULAR WEIGHT: 349.4

CAS NUMBER: 41179-33-3

APPEARANCE: Pale pink solid

PURITY: ≥99%

SOLUBILITY: ~35 mg/ml in DMSO and Ethanol

DESCRIPTION: MK2a inhibitor is a substrate-selective inhibitor of p38α MAPK that selectively inhibits p38α-dependent phosphorylation of mitogen-activated protein kinase-activated protein kinase 2 (MK2a) with a K(i)(app) of 330 nM. It does not inhibit the phosphorylation of ATF-2 and MBP. It inhibits proliferation of U87, A172, and U251 glioblastoma cells with EC_{50} values of 0.6-1 μM by inhibition of tubulin polymerization and induction of apoptosis.

STORAGE TEMPERATURE: -20ºC. Store in the dark. Product is light sensitive.

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

REFERENCES:

1. Brennan, P.E. Deciphering the true antiproliferative target of an MK2 activation inhibitor in glioblastoma. Cell Death Dis. e2069, (2016).
2. Davidson, W., Frego, L., Peet, G.W., et al. Discovery and characterization of a substrate selective p38α inhibitor. Biochemistry 43(37), 11658-11671 (2004).

RELATED PRODUCTS:

Flubendazole (Cat. No. B2955)
Paclitaxel (Cat. No. 1567)
Epothilone B (Cat. No. 2012)
VEGFR-2 & tubulin inhibitor (Cat. No. B2932)
INH6 (Cat. No. B2907)

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