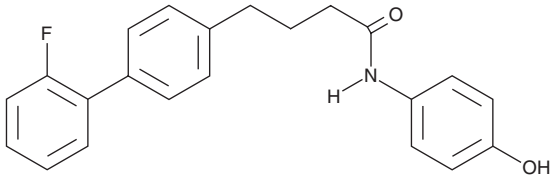
PRODUCT INFORMATION

MK2a Inhibitor

Item No. 17325

CAS Registry No.:	41179-33-3
Formal Name:	2'-fluoro-N-(4-hydroxyphenyl)-[1,1'-biphenyl]-4-butanamide
Synonym:	CMPD 1
MF:	$C_{22}H_{20}FNO_2$
FW:	349.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 249 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MK2a inhibitor is supplied as a crystalline solid. A stock solution may be made by dissolving the MK2a inhibitor in the solvent of choice, which should be purged with an inert gas. MK2a inhibitor is soluble in organic solvents such as ethanol and DMSO. The solubility of MK2a inhibitor in these solvents is approximately 100 mM.

Description

MK2a inhibitor is a substrate-selective inhibitor of p38α MAPK that selectively inhibits p38α-dependent phosphorylation of MAPKAPK-2 (MK2) over activating transcription factor 2 (ATF2; K_i = 330 and >20,000 nM, respectively, in cell-free assays).[1] It inhibits proliferation of U87, A172, and U251 glioblastoma cells (EC_{50}s = 0.6-1 µM) *via* inhibition of tubulin polymerization and induction of apoptosis.[2]

References

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

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