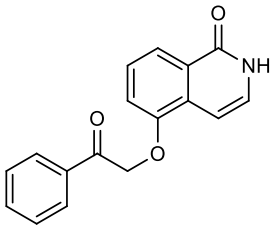
Catalog # 10-3779

UPF-1069

CAS# 1048371-03-4

5-(2-Oxo-3-phenylethoxy)-1(2H)-isoquinolinone

Lot # X109466



A selective PARP-2 inhibitor (IC_{50}=0.3 μM and ~ 27-fold selective against PARP-1).[1,2] Increases apoptosis in hippocampal slices but protects cortical cells in models of post-ischemic brain damage.[3] Blocks the interaction between PARP-2 and FOXA1, attenuating androgen receptor-mediated gene expression and inhibiting androgen receptor-positive prostate cancer growth.[4]

1) Pellicciari *et al*. (2008), *On the way to selective PARP-2 inhibitors. Design, synthesis, and preliminary evaluation of a series of isoquinolinone derivatives*; Chem. Med. Chem., **3** 914
2) Thorsell *et al*. (2017), *Structural Basis for Potency and Promiscuity in Poly(ADP-ribose) Polymerase (PARP) and Tankyrase Inhibitors*; J. Med. Chem., **60** 1262
3) Moroni *et al*. (2009), *Selective PARP-2 inhibitors increase apoptosis in hippocampal slices but protect cortical cells in models of post-ischaemic brain damage;* Br. J. Pharmacol., **157** 854
4) Gui *et al*. (2019), *Selective targeting of PARP-2 inhibits androgen receptor signaling and prostate cancer growth through disruption of FOXA1 function*; Proc. Natl. Acad. Sci. USA, **116** 14573

PHYSICAL DATA

Molecular Weight:	279.29
Molecular Formula:	$C_{17}H_{13}NO_3$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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