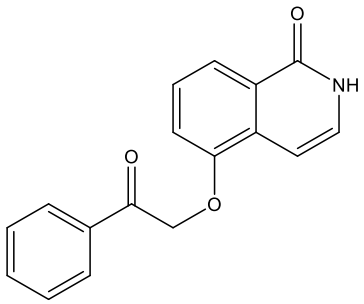
**Catalog # 10-3779**

**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. |




Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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