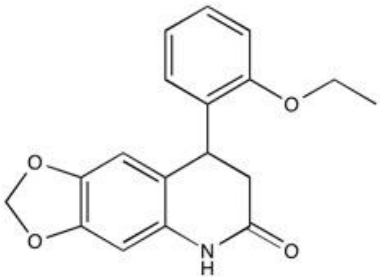
Catalog # 10-1360

FQI1

CAS# 599151-35-6

8-(2-Ethoxyphenyl)-7,8-dihydro-[1,3]dioxolo[4,5-g]quinoline-6(5H)-one

Lot # X104531



Inhibitor of transcription factor LSF specifically targeting its DNA binding and corresponding transcriptional activity (IC_{50}=2.1 μM). Rapidly induces apoptosis in an aggressive hepatocellular carcinoma (HCC) cell line and dramatically inhibits tumor growth in a mouse xenograft model with no general tissue cytotoxicity.[1,2] In human HCC cells, FQI1 induced mitotic arrest with an accompanying increase in cyclin B1.[3] Blocks LSF-stimulated activation of DNA methyltransferase 1.[4] Cell permeable.

1) Grant *et al*. (2012), *Antiproliferative small-molecule inhibitors of transcription factor LSF reveal oncogene addiction to LSF in hepatocellular carcinoma*; Proc. Natl. Acad. Sci. USA, **109** 4503
2) Santhekadur *et al*. (2012), *The transcription factor LSF: a novel oncogene for hepatocellular carcinoma*; Am. J. Cancer Res., **2** 269
3) Raiasekaran *et al*. (2015), *Small molecule inhibitors of Late SV40 Factor (LSF) abrogate hepatocellular carcinoma (HCC): Evaluation using an endogenous HCC model*; Oncotarget **6** 26266
4) Chin *et al*. (2016), *Transcription factor LSF-DNMT1 complex dissociation by FQI1 leads to aberrant DNA methylation and gene expression*; Oncotarget, **7** 83627

PHYSICAL DATA

Molecular Weight:	311.33
Molecular Formula:	$C_{18}H_{17}NO_4$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 20 mg/ml with warming)
Physical Description:	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 or ethanol may be stored at -20°C for up to 3 months.

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