



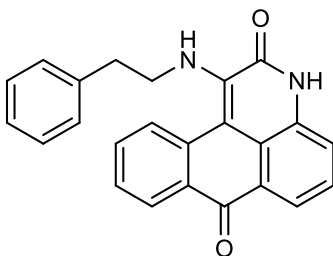
Catalog # 10-1424

BRD-7389

376382-11-5

1-[(2-Phenylethyl)amino]-3H-naphtho[1,2,3-de]quinolone-2,7-dione

Lot # X105880



Inhibits p90 ribosomal S6 kinase (RSK), IC_{50} = 1.2, 1.5 and 2.4 μ M for RSK3, RSK1 and RSK2 respectively¹. Induces a beta-cell-like state in pancreatic alpha-cells and induces insulin expression^{1,2}. Increases the endocrine cell content and function of donor human pancreatic islets in culture¹. Blocks muscarinic acetylcholine receptor-stimulated RSK activation and subsequent proliferation of SNU-407 colon cancer cells³.

- 1) Fomina-Yadlin *et al.* (2010), *Small molecule inducers of insulin expression in pancreatic alpha-cells*; Proc. Natl. Acad. Sci. USA, **107** 15099
- 2) Choudhary *et al.* (2014), *Quantitative-proteomic comparison of alpha and Beta cells to uncover novel targets for lineage reprogramming*; PLoS One, **9(4)** e95194
- 3) Park and Cho (2012), *EGFR and PKC are involved in the activation of ERK1/2 and p90 RSK and the subsequent proliferation of SNU-470 colon cancer cells by muscarinic acetylcholine receptors*; Mol. Cell. Biochem., **370** 191

PHYSICAL DATA

Molecular Weight:	366.42
Molecular Formula:	C ₂₄ H ₁₈ N ₂ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml)
Physical Description:	Yellow 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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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

www.focusbiomolecules.com