



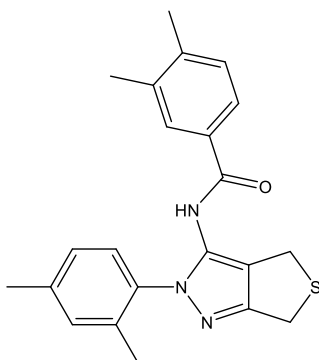
Catalog # 10-3907

KL101

CAS# 396721-89-4

N-(2-(2,4-Dimethylphenyl)-2,6-dihydro-4H-thieno[3,4-c]pyrazol-3-yl)-3,4-dimethylbenzamide

Lot # FBA6248



KL101 is an isoform-selective stabilizer of the circadian clock protein CRY1. It dose-dependently lengthened the circadian period in Bmal1-dLuc and Per2-dLuc reporter cells. KL101 strongly enhanced rosiglitazone-dependent brown adipocyte differentiation revealing the importance of CRY-dependent regulation of energy metabolism and a possible new lead for anti-obesity therapeutics.

1) Miller *et al.* (2020), *Isoform-selective regulation of mammalian cryptochromes*; Nat. Chem. Biol. **16** 676

PHYSICAL DATA

Molecular Weight:	377.51
Molecular Formula:	C ₂₂ H ₂₃ N ₃ OS
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or may be stored at -20°C for up to 3 months.

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