

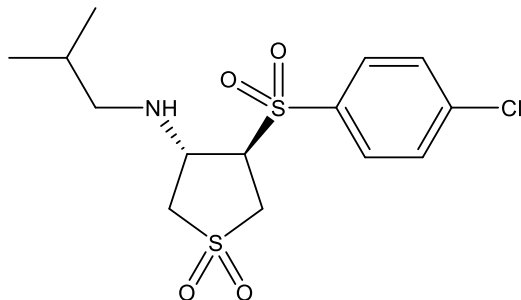
Catalog # 10-4680

CBR-470-1

CAS# 2416095-06-0

trans-4-(4-Chlorophenyl)sulfonyl-N-(2-methylpropyl)-1,1-dioxothiolan-3-amine

Lot # FBA8035



CBR-470-1 is an activator of NRF2 signaling ($EC_{50} \sim 1 \mu\text{M}$ cellular ARE-LUC assay).¹ It inhibits phosphoglycerate kinase 1 leading to a build-up of methylglyoxal which inactivates KEAP1. It protected SH-SY5Y neuronal cells from MPP⁺ induced oxidative injury *via* activation of NRF2 signaling.²

- 1) Bollong *et al.* (2018) *A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling*; Nature **562** 600
- 2) Zheng *et al.* (2020) *PGK1 inhibitor CBR-470-1 protects neuronal cells from MPP⁺*; Aging (Albany NY) **12** 13388

PHYSICAL DATA

Molecular Weight: 365.89
Molecular Formula: $C_{14}H_{20}ClNO_4S_2$
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 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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