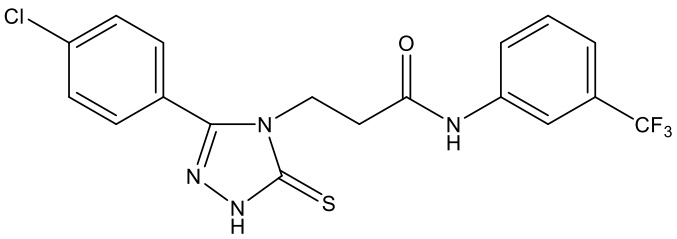
Catalog #10-4370
HD2

CAS# 2543578-57-8

3-(3-(4-Chlorophenyl)-5-mercapto-4H-1,2,4-triazol-4-yl)-N-(3-(trifluoromethyl)phenyl)propanamide

Lot # FBA10047



HD2 is a potent (IC_{50} = 2.96 nM) inhibitor of DCN1, an important co-E3 ligase of neddylation. Displays favorable pharmacokinetics and low toxicity (including no hepatotoxicity). Selective against other DCN family members as well as ACE. HD2 reduced the migration and proliferation of Ang II-treated cardiac fibroblasts. Active in an isoproterenol-induced pathological cardiac remodeling and fibrosis mouse model. HD2 is a promising new therapeutic option for treatment of cardiac remodeling and fibrosis.

1) He *et al.* (2024), *Discovery of 1,2,4-Triazole-3-thione Derivatives AS Potent and Selective DCN1 Inhibitors for Pathological Cardiac Fibrosis and Remodeling*; J. Med. Chem. **67** 18699

PHYSICAL DATA

Molecular Weight:	426.84
Molecular Formula:	$C_{18}H_{14}ClF_3N_4OS$
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (at least 60 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 2 months.

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