

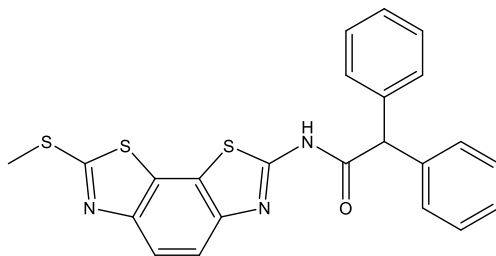
Catalog # 10-1425

Gue1654

397290-30-1

N-[7-(Methylthio)benzo[1,2-*d*:4,3-*d'*]bisthiazol-2-yl]- α -phenylbenzeneacetamide

Lot # X105130



Gue1654 is a biased antagonist for the oxoeicosanoid receptor 1 (OXE-R, GPR170)¹, the receptor for 5-Oxo-ETE, a proinflammatory eicosanoid². It selectively inhibits G $\beta\gamma$ but not G α_i signaling upon activation of the G α_i - $\beta\gamma$ heterotrimer by OXE-R.^{1,3} Gue1654 alleviated coronary artery ligation-induced ischemic myocardial injury in a mouse model.⁴

- 1) Blatermann *et al.* (2012), *A biased ligand for OXE-R uncouples G α and G $\beta\gamma$ signaling within a heterotrimer*; Nat. Chem. Biol., **8** 631
- 2) Powell and Rokach (2013), *The eosinophil chemoattractant 5-oxo-ETE and the OXE receptor*; Prog. Lipid Res., **52** 651
- 3) Konya *et al.* (2014), *A biased non-G α_i OXE-R antagonist demonstrates that G α_i protein subunit is not directly involved in neutrophil, eosinophil, and monocyte activation by 5-oxo-ETE*; J. Immunol., **192** 4774
- 4) Lai *et al.* (2021), *Oxoeicosanoid receptor inhibition alleviates acute myocardial infarction through activation of BCAT1*; Basic Res. Cardiol., **116** 3

PHYSICAL DATA

Molecular Weight:	447.59
Molecular Formula:	C ₂₃ H ₁₇ N ₃ OS ₃
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (40 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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