

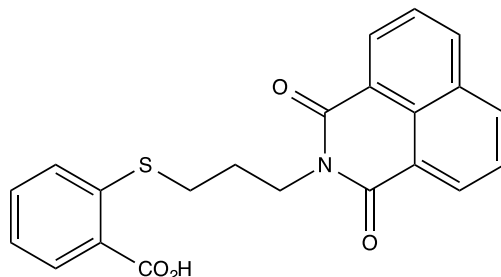
Catalog #10-1442

GRI-977143

CAS# 325850-81-5

2-[[3-(1,3-dioxo-1*H*-benz[*de*]isoquinolin-2(3*H*)-yl)propyl]thio]benzoic acid

Lot # X106487



Selective agonist of the lysophosphatidic acid - 2 (LPA₂) receptor. Displays antiapoptotic activity.¹ Rescues apoptotically condemned cells from death and injury caused by high-dose γ -irradiation *in vitro* and *in vivo*. Rescues mice from deadly levels of radiation when given 24 hours post-exposure.² Activates the ERK1/2 prosurvival pathway.²

- 1) Kiss *et al.* (2012), *Virtual screening for LPA₂-specific agonists identifies a nonlipid compound with antiapoptotic actions*; Mol.Pharmacol. **82** 1162
- 2) Kiss *et al.* (2013), *Mitigation of radiation injury by selective stimulation of the LPA₂ receptor*; Biochim.Biophys.Acta **1831** 117

PHYSICAL DATA

Molecular Weight:	391.44
Molecular Formula:	C ₂₂ H ₁₇ NO ₆ S
Purity:	>98% by TLC
	NMR: Conforms
Solubility:	DMSO (35 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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