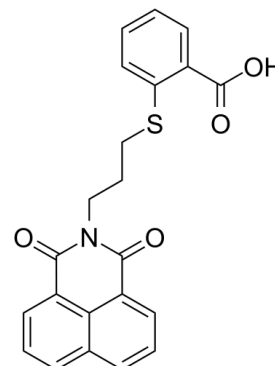


## Data Sheet

<b>Product Name:</b>	GRI977143
<b>Cat. No.:</b>	CS-0019915
<b>CAS No.:</b>	325850-81-5
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>17</sub> NO <sub>4</sub> S
<b>Molecular Weight:</b>	391.44
<b>Target:</b>	Caspase; LPL Receptor
<b>Pathway:</b>	Apoptosis; GPCR/G Protein
<b>Solubility:</b>	DMSO : 50 mg/mL (127.73 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

GRI977143 is a specific **LPA<sub>2</sub> receptor** agonist, with an **EC<sub>50</sub>** of 3.3 μM<sup>[1]</sup>. IC<sub>50</sub> & Target: EC<sub>50</sub>: 3.3 μM (LPA<sub>2</sub> receptor), 6.6 μM (LPA<sub>3</sub> receptor)<sup>[1]</sup>. **In Vitro:** GRI977143 (10 μM, 24-72 h) is effective in reducing activation of caspases 3, 7, 8, and 9 and inhibits poly(ADP-ribose)polymerase 1 cleavage and DNA fragmentation in different extrinsic and intrinsic models of apoptosis<sup>[1]</sup>.

GRI977143 is an effective stimulator of extracellular signal-regulated kinase 1/2 activation and promotes the assembly of a macromolecular signaling complex consisting of LPA<sub>2</sub>, Na<sup>+</sup>-H<sup>+</sup> exchange regulatory factor 2, and thyroid receptor interacting protein 6<sup>[1]</sup>.

### References:

[1]. Gyöngyi N. Kiss, et al. Virtual Screening for LPA<sub>2</sub>-Specific Agonists Identifies a Nonlipid Compound with Antiapoptotic Actions. *Mol Pharmacol.* 2012 Dec; 82(6): 1162–1173.

[2]. Gyöngyi Nagyné Kiss, et al. PHARMACOLOGICAL AND CELLULAR CHARACTERIZATION OF GRI977143, A NOVEL NONLIPID LPA<sub>2</sub> RECEPTOR AGONIST IDENTIFIED BY VIRTUAL SCREENING.

### CAIndexNames:

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

### SMILES:

O=C(O)C1=CC=CC=C1SCCCN(C(C2=CC=CC3=CC=CC4=C23)=O)C4=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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