



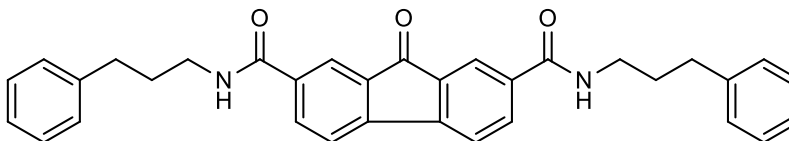
Catalog # 10-1502

GPI-16552

443794-40-9

N-bis-(3-Phenyl-propyl)-9-oxo-fluorene-2,7-diamide

Lot # S101189



A novel potent inhibitor of poly(ADP-ribose) glycohydrolase (PARG), $IC_{50}=1.7 \mu M^1$. Pre or post ischemia treatment (40 mg/kg) with GPI-16552 reduces brain infarct volumes in a rat model of cerebral ischemia². It modulates the inflammatory response to ischemia/reperfusion in a rat splanchnic artery occlusion model³ and reduces the degree of spinal cord inflammation and tissue injury after experimental spinal cord trauma⁴. Synergizes with temozolomide in decreasing melanoma cell invasion and metastatic spreading in mice injected with B16 melanoma cells⁵.

- 1) Zhang *et al.* (2002), *PARP and PARG as novel therapeutic targets*; *Drugs Future*, **27** 371
- 2) Lu *et al.* (2003), *Post-treatment with a novel PARG inhibitor reduces infarct in cerebral ischemia in the rat.*; *Brain Res.*, **978** 99
- 3) Cuzzocrea *et al.* (2005), *PARG activity mediates intestinal injury induced by splanchnic artery occlusion and reprofusion* *FASEB J.*, **19** 558
- 4) Cuzzocrea *et al.* (2006), *Poly(ADP-ribose) glycohydrolase activity mediates post-traumatic inflammatory reaction after experimental spinal cord trauma*; *J. Pharmacol. Exp. Ther.*, **319** 127
- 5) Tentori *et al.* (2005), *Poly(ADP-roibose) glycohydrolase inhibitor as chemosensitiser of malignant melanoma for temozolomide*; *Eur. J. Cancer*, **41** 2948

PHYSICAL DATA

Molecular Weight:	502.62
Molecular Formula:	C ₃₃ H ₃₀ N ₂ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or DMF (up to 25 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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