

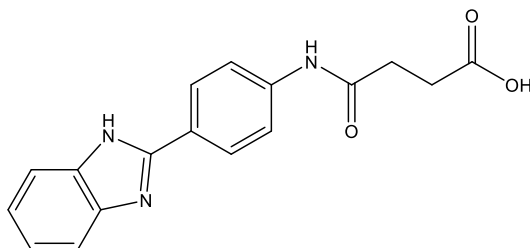
Catalog # 10-4747

iGP-1

CAS# 27031-00-1

N-[4-(1H-Benzoimidazol-2-yl)-phenyl]-succinic acid

Lot # X109641



A potent and cell permeable inhibitor of the mitochondrial glycerol-3-phosphate dehydrogenase (mGPDH), $IC_{50}=6.3 \mu\text{M}$, which is selective over the cytosolic enzyme¹. It does not block pyruvate uptake into cells or mitochondria and has no direct effect on glycolysis in synaptosomes. This novel inhibitor is a unique tool which may be used to investigate the role of glycerol-3-phosphate metabolism in isolated and intact systems.¹

1) Orr *et al.* (2014), *Novel inhibitors of mitochondrial sn-glycerol 3-phosphate dehydrogenase*; PLoS One, **9** e89938

PHYSICAL DATA

Molecular Weight:	309.32
Molecular Formula:	C ₁₇ H ₁₅ N ₃ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied desiccated 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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