

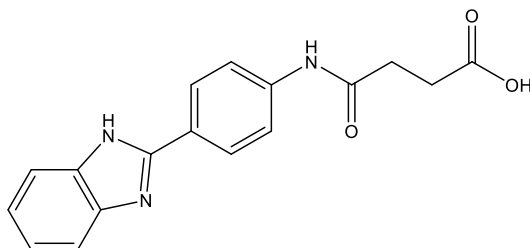
**Catalog # 10-4747**

**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 enzyme<sup>1</sup>. 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.<sup>1</sup>

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 <sub>17</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>
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.

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