

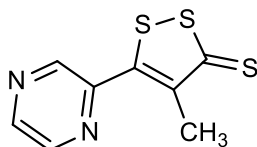
**Catalog # 10-2831**

**Oltipraz**

64224-21-1

4-Methyl-5-pyrazinyl-3H-1,2-dithiole-3-thione

Lot # X106431



Upregulates the transcription factor NRF2 and prevents insulin resistance and obesity induced by high fat diet in C57BL/6J mice<sup>1</sup>. Attenuates the progression of fibrosis in a rat model of nonalcoholic steatohepatitis<sup>2</sup>. Attenuates chronic hypoxia-induced cardiopulmonary alterations in mice<sup>3</sup>. Promotes liver regeneration after partial hepatectomy<sup>4</sup>. Off target effects: Activates constitutive androstane receptor (CAR)<sup>5</sup>.

- 1) Yu *et al.* (2011), *Oltipraz upregulates the nuclear factor (erythroid-derived 2)-like 2 (NRF2) antioxidant system and prevents insulin resistance and obesity induced by a high-fat diet in C57BL/6J mice*; *Diabetological*, **54** 922
- 2) Shimozone *et al.* (2013), *Nrf2 activators attenuate the progression of nonalcoholic steatohepatitis-related fibrosis in a dietary rat model*; *Mol. Pharmacol*, **84** 62
- 3) Eba *et al.* (2013), *The nuclear factor erythroid 2-related factor 2 activator oltipraz attenuates chronic hypoxia-induced cardiopulmonary alterations in mice*; *Am. J. Respir. Cell. Mol. Biol.*, **49** 324
- 4) Cho *et al.* (2009), *Oltipraz promotion of liver regeneration after partial hepatectomy: the role of PI3-kinase dependent C/EBPbeta and cyclin E regulation*; *Arch. Pharm. Res.*, **32** 625
- 5) Merrell *et al.* (2008), *The Nrf2 activator oltipraz also activates the constitutive androstane receptor*; *Drug Metab. Dispos.*, **36** 1716

**PHYSICAL DATA**

Molecular Weight:	226.34
Molecular Formula:	C <sub>8</sub> H <sub>6</sub> N <sub>2</sub> S <sub>3</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Red 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 1 month.

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