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[1]. Attenuates the progression of fibrosis in a rat model of nonalcoholic steatohepatitis[2]. Attenuates chronic hypoxia-induced cardiopulmonary alterations in mice[3]. Promotes liver regeneration after partial hepatectomy[4]. Off target effects: Activates constitutive androstane receptor (CAR)[5].

1) Yu *et al*. (2011), *Olipraz 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) Shimozono *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-kianse 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:	$C_8H_6N_2S_3$
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.

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