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Product Information

Product ID 04578 CAS No. 64224-21-1

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

Svnonvm BRN 0978110

Formula C₈H₆N₂S₃ Formula Wt. 226.34 Melting Point 165-166°C Purity ≥98%

Solubility Soluble in methanol.

Bulk quanitites available upon request

Product ID	Size
O4578	50 mg
O4578	250 mg
O4578	500 mg
O4578	1 q

Store Temp 4°C Ship Temp Ambient

Description Oltipraz is an activator of Nrf2 that exhibits anti-fibrotic, anti-diabetic, anti-parasitic, anti-angiogenic, and anticancer chemotherapeutic activities. Oltipraz induces phase II enzymes such as NADPH:quinone reductase. Oltipraz also displays efficacy in the treatment of Schistosoma infections. In vivo, oltipraz inhibits diet-induced development of hepatic fibrosis. In high-fat diet-fed animal models, oltipraz prevents decreases in expression of GLUT4, Nrf2, superoxide dismutase, and heme oxygenase 1 and suppresses increases in protein oxidation and iNOS production, improving glucose disposal and overall body weight. In animal models of cancer, this compound decreases vessel density, expression of VEGF, and tumor growth; additionally, oltipraz increases ubiquitination and suppresses expression of HIF-1a.

References Shimozono R, Asaoka Y, Yoshizawa Y, et al. Nrf2 activators attenuate the progression of nonalcoholic steatohepatitis-related fibrosis in a dietary rat model. Mol Pharmacol. 2013 Jul;84(1):62-70. PMID: 23592516.

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> Lee WH, Kim YW, Choi JH, et al. Oltipraz and dithiolethione congeners inhibit hypoxia-inducible factor-1alpha activity through p70 ribosomal S6 kinase-1 inhibition and H2O2-scavenging effect. Mol Cancer Ther. 2009 Oct;8(10):2791-802. PMID: 19789218.

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Merrell MD, Jackson JP, Augustine LM, et al. The Nrf2 activator oltipraz also activates the constitutive androstane receptor. Drug Metab Dispos. 2008 Aug; 36(8): 1716-21. PMID: 18474683.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.