8-Gingerol is originally found in species of *Zingiber*; it exhibits antiemetic, anti-diabetic, anticancer, immunosuppressive, antioxidative, anti-inflammatory, cardiomodulatory, and anti-asthma activities. 8-Gingerol inhibits 5-HT3 receptors and also attenuates airway hyperresponsiveness in animal models. 8-Gingerol also increases glucose uptake and upregulates expression of GLUT4 in vitro. This compound inhibits ConA-, LPS-, and OVA-stimulated spleenocyte proliferation and decreases levels of CD19+ B cells, CD3+ T cells, and IgG in vivo. Additionally, 8-gingerol increases radical scavenging of superoxide and hydroxyl radicals, inhibits oxidative burst activity, and decreases expression of NO and PGE2 in vitro. In animal models, 8-gingerol displays positive inotropic activity, increasing longitudinal contractions, decreasing peak tension and relaxation times, and increasing sarcoplasmic Ca2+ uptake. This compound also inhibits proliferation of breast adenocarcinoma cells.

**References**


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