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Desmethylanethol trithione

产品编号: D52126
CAS: 18274-81-2
分子式: C9H6OS3
纯度: 98.19%
InChi Key: InChIKey=IWBBKLMHAILHAR-UHFFFAOYSA-N
Smiles: Oc1ccc(cc1)-c1cc(=S)ss1
外观: 固体粉末
作用通路: Angiogenesis; Tyrosine Kinase/Adaptors; Cytoskeletal Signaling; PI3K/Akt/mTOR signaling
作用靶点: Akt; VEGFR
溶解性: DMSO: 45 mg/mL (198.82 mM)
保存条件: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
产品介绍: ADT-OH is a derivative of anethole dithiolethione (ADT) and synthetic hydrogen sulfide (H2S) donor. In the in vitro glucose-oxygen deprivation (OGD) model, ADT-OH markedly attenuated tPA-enhanced Akt activation and VEGF expression in brain microvascular endothelial cells. Finally, ADT-OH improved functional outcomes in mice subjected to MCAO and tPA infusion. H2S donors reduced tPA-induced cerebral hemorrhage by possibly inhibiting the Akt-VEGF-MMP9 cascade. Administration of H2S donors has potential as a novel modality to improve the safety of tPA following the stroke.