


Certificate of Analysis

Catalog Number	BP10822
Product Name	Desmethylanethol trithione

Physical and Chemical Properties

Synonyms	ADT-OH
CAS No.	18274-81-2
Chemical Formula	C ₉ H ₆ OS ₃
Molecular Weight	226.33
Solubility	DMSO: 10 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	<p>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.</p>
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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