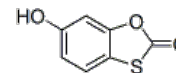


Tioxolone Datasheet

Technical Data

Molecular Weight (MW)	168.17	Solubility (25°C)	
Formula	C ₇ H ₄ O ₃ S		
CAS No.	4991-65-5	Storage	2 years -20°C Powder
Synonyms	N/A		2 weeks 4°C in DMSO
			6 months -80°C in DMSO

Tioxolone Chemical Structure



Return Policy

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Biological Activity

Tioxolone is a metalloenzyme carbonic anhydrase I inhibitor with a K_i of 91 nM.^[1] Tioxolone lacks sulfonamide, sulfamate, or hydroxamate functional groups that are typically found in therapeutic carbonic anhydrase (CA) inhibitors, such as acetazolamide. Tioxolone is proposed to be a prodrug inhibitor that is cleaved via a CA II zinc-hydroxide mechanism known to catalyze the hydrolysis of esters. When tioxolone binds in the active site of CA II, it is cleaved and forms 4-mercaptobenzene-1,3-diol via the intermediate S-(2,4-thiophenyl) hydrogen thiocarbonate. The esterase cleavage product binds to the zinc active site via the thiol group and is therefore the active CA inhibitor, while the intermediate is located at the rim of the active-site cavity.^{[2][3]}

References on Tioxolone

- [1] *Biochemistry*. 2008;47(10):3174-84
 [2] *J Biomol Screen*. 2006;11(7):782-91
 [3] *Bioorg Med Chem Lett*. 2008;18(14):3938-41

PLEASE KEEP THE PRODUCT UNDER -20°C FOR LONG-TERM STORAGE

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE

i Specific storage and handling information for each product is indicated on the product datasheet. Most Selleck products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality, but save your shipping charges by using the most economical storage conditions for an overnight shipment. Upon receipt of the product, follow the storage recommendations on the product datasheet.

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