



Product Information

Carbonic anhydrase inhibitor, Tioxolone, Purity $\geq 98\%$

Cat. No.: X24-09-YM229

Size: 500 mg; 1 g; 2 g; 5 g

MDL: MFCD00005859

CAS Number: 4991-65-5

Compound CID: 72139

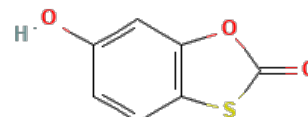
Synonym: 4991-65-5; 6-Hydroxy-1,3-benzoxathiol-2-one; Thioxolone;

6-hydroxybenzo[d][1,3]oxathiol-2-one; Camyna; Tioxolon; Thioxalone; Tioxolona;

Tioxolonum; 1,3-Benzoxathiol-2-one, 6-hydroxy-; 6-Hydroxy-1,3-benzoxathiol-2-one;

Carbonic anhydrase inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Tioxolone, soluble in DMSO and ethanol and insoluble in water, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting carbonic anhydrase. The molecular weight of the compound is 168.17, and its molecular formula is $C_7H_4O_3S$.
Molecular Weight	168.17
Molecular Formula	$C_7H_4O_3S$
IUPAC Name	6-Hydroxy-1,3-benzoxathiol-2-one
InChI	InChI=1S/C7H4O3S/c8-4-1-2-6-5(3-4)10-7(9)11-6/h1-3,8H
InChI Key	SLYPOVJCSQHITR-UHFFFAOYSA-N
Canonical SMILES	<chem>C1=CC2=C(C=C1O)OC(=O)S2</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 32 mg/mL (190.28 mM); Water: insoluble; Ethanol: 32 mg/mL (190.28 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Tioxolone displays the significant potential to act as an effective antiseptic agent.



Storage

Store at -20°C, and keep desiccated.
