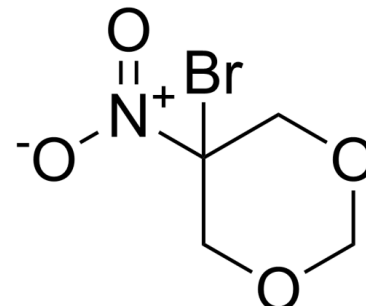


## Data Sheet

<b>Product Name:</b>	5-Bromo-5-nitro-1,3-dioxane
<b>Cat. No.:</b>	CS-W015032
<b>CAS No.:</b>	30007-47-7
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>6</sub> BrNO <sub>4</sub>
<b>Molecular Weight:</b>	212.00
<b>Target:</b>	Bacterial; Fungal
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

5-Bromo-5-nitro-1,3-dioxane, an **antimicrobial** compound, is effective against Gram-positive and Gram-negative bacteria and fungi, including yeast. 5-Bromo-5-nitro-1,3-dioxane inhibits enzyme activity and subsequent inhibition of microbial growth by the oxidation of essential protein thiol<sup>[1]</sup>.

### References:

[1]. M Ghannoum, et al. Mode of Action of the Antimicrobial Compound 5-bromo-5-nitro-1,3-dioxane (Bronidox). Folia Microbiol (Praha). 1986;31(1):19-31.

### CAIndexNames:

1,3-Dioxane, 5-bromo-5-nitro

### SMILES:

O=[N+](C1(Br)COCOC1)[O-]

**Caution: Product has not been fully validated for medical applications. For research use only.**

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