



Product Information

Antifection inhibitor Furazolidone, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ033

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

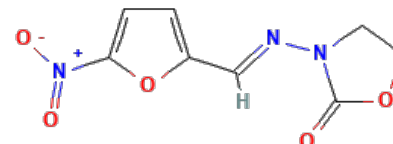
MDL: MFCD00010550

CAS Number: 67-45-8

Compound CID: 5323714

Synonym: 67-45-8; Antifection inhibitor; Nitrofurazolidone; Nitrofuroxon

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



Product Information

Description	Furazolidone, soluble in DMSO and insoluble in ethanol and water, has strong immunosuppressant properties.
Molecular Weight	225.16
Molecular Formula	C ₈ H ₇ N ₃ O ₅
IUPAC Name	3-[(E)-(5-nitrofuran-2-yl)methylideneamino]-1,3-oxazolidin-2-one
InChI	InChI=1S/C8H7N3O5/c12-8-10(3-4-15-8)9-5-6-1-2-7(16-6)11(13)14/h1-2,5H,3-4H2/b9-5+
InChI Key	PLHJDBGFXBMTGZ-WEVVVXLNSA-N
Canonical SMILES	C1COC(=O)N1N=CC2=CC=C(O2)[N+](=O)[O-]
Isomeric SMILES	C1COC(=O)N1/N=C/C2=CC=C(O2)[N+](=O)[O-]
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 40 mg/mL (177.64 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Furazolidone is used in research as an antifection inhibitor to study its effects on bacterial and protozoal infections, particularly in the gastrointestinal tract.
Storage	Store at -20°C, and keep desiccated.