

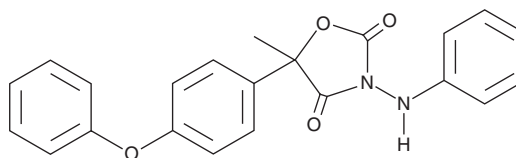
PRODUCT INFORMATION



Famoxadone

Item No. 34470

CAS Registry No.: 131807-57-3
Formal Name: 5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-2,4-oxazolidinedione
Synonym: DPX-JE874
MF: $C_{22}H_{18}N_2O_4$
FW: 374.4
Purity: $\geq 98\%$
UV/Vis.: λ_{max} : 229 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Famoxadone is supplied as a solid. A stock solution may be made by dissolving the famoxadone in the solvent of choice, which should be purged with an inert gas. Famoxadone is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of famoxadone in these solvents is approximately 30 mg/ml.

Famoxadone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, famoxadone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Famoxadone has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Famoxadone is a fungicide.¹ It inhibits mitochondrial complex III, also known as the cytochrome bc₁ complex, and electron transport in rat heart submitochondria (IC_{50} s = 28 and 4.5 ng/ml, respectively). It reduces oxygen consumption in, and induces disintegration of, *P. infestans* zoospores when used at a concentration of 2 $\mu\text{g/ml}$. Famoxadone inhibits the growth of *P. viticola* on grape seedlings (EC_{50} = 3 $\mu\text{g/ml}$). Formulations containing famoxadone have been used to control various fungal diseases in crops.

Reference

1. Jordan, D.B., Livingston, R.S., Bisaha, J.J., *et al.* Mode of action of famoxadone. *Pestic. Sci.* **55**, 105-118 (1999).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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