
Product Data Sheet

Product Name: Roquefortine C

Cat. No.: GC18460

Chemical Properties

Cas. No. 58735-64-1

Chemical Name (3E,5aS,10bR)-10b-(1,1-dimethyl-2-propen-1-yl)-6,10b,11,11aS-tetrahydro-3-(1H-imidazol-5-ylmethylene)-2H-pyrazino[1',2':1,5]pyrrolo[2,3-b]indole-1,4(3H,5aH)-dione

SMILES CC([C@]12C3=CC=CC=C3N[C@]1(N([C@@]([H]) (C2)C(N/4)=O)C(C4=C/C5=CN=CN5)=O)[H])(C=C)C

Formula C₂₂H₂₃N₅O₂ M.Wt 389.5

Solubility DMSO : 10 mg/mL (25.68 mM; Need ultrasonic and warming) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Roquefortine C is a mycotoxin that was first isolated from a strain of *P. roqueforti*, a species of *Penicillium* commercially used to ripen blue-veined cheeses. It has also been isolated from other members of the *Penicillium* genus found in contaminated food products where it displays neurotoxic properties. It has been shown to both activate a P-glycoprotein transport system involved in the efflux of xenobiotics and to inhibit cytochrome P450 3A detoxification enzymes. It has also been used as a biomarker for penitrem A intoxication.

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

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