

Certificate of Analysis

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Product Name: Pyrrolidinedithiocarbamate ammonium

Catalog No.: 0727

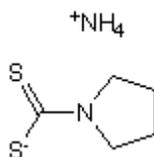
Batch No.: 1

CAS Number: 5108-96-3

EC Number: 225-834-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₁₂N₂S₂
Batch Molecular Weight: 164.3
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 153 - 155°C
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

This inhibitor of nuclear factor κB (NF-κB) prevents the increase in NO-synthase mRNA by interleukin-1, without affecting the formation of NO-synthase mRNA produced by cAMP.

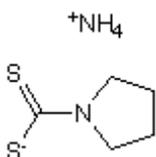
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Bessho *et al* (1994) Pyrrolidine dithiocarbamate, a potent inhibitor of nuclear factor κB (NF-κB) activation, prevents apoptosis in human promyelocytic leukemia HL-60 cells and thymocytes. *Biochem.Pharmacol.* **48** 1883. PMID: 7986199.

Eberhardt *et al* (1994) Pyrrolidine dithiocarbamate differentially affects 1β- and cAMP-induced NO-synthase expression in rat renal mesangial cells. *Biochem.Biophys.Res.Commun.* **200** 163. PMID: 7513157.

Schini-Kerth (1994) Pyrrolidine dithiocarbamate selectively prevents the expression of the inducible nitric oxide synthase in the rat aorta. *Eur.J.Pharmacol.* **265** 83. PMID: 7533726.

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