
Product Data Sheet

Product Name: 1-Cinnamoylpyrrolidine

Cat. No.: GC35064

Chemical Properties

Cas. No. 52438-21-8

SMILES O=C(N1CCCC1)/C=C/C2=CC=CC=C2Formula $C_{13}H_{15}NO$ M.Wt 201.26

Solubility Soluble in DMSO 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**

1-Cinnamoylpyrrolidine is an amide that has been found in *P. taiwanense* and has antiplatelet and DNA-cleaving activities.^{1,2} It inhibits arachidonic acid- or collagen-induced aggregation of isolated washed rabbit platelets (IC_{50} s = 30.5 and 37.3 μ M, respectively).¹ 1-Cinnamoylpyrrolidine (250 μ M) cleaves DNA in a cell-free DNA strand scission assay in the presence, but not absence, of copper ions.²

1.Chen, I.-S., Chen, Y.-C., and Liao, C.-H. Amides with anti-platelet aggregation activity from *Piper taiwanense* *Fitoterapia* 78(6)414-419(2007) 2.Ma, J., Jones, S.H., and Hecht, S.M. Phenolic acid amides: A new type of DNA strand scission agent from *Piper caninum* *Bioorg. Med. Chem.* 12(14)3885-3889(2004)

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

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