

Product Data Sheet

Product Name: CVT-2738

Cat. No.: GC49410

Chemical Properties

Cas. No. 5294-61-1

SMILES O=C(CN1CCNCC1)NC2=C(C)C=CC=C2C

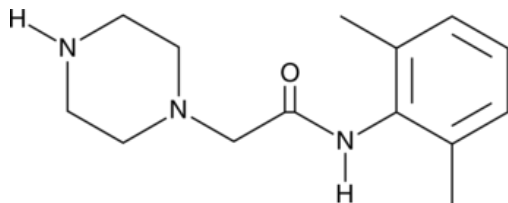
Formula C₁₄H₂₁N₃O M.Wt 247.3

Solubility DMF: 10 mg/ml, DMF:PBS (pH 7.2) Storage -20°C
(1:5): 0.16 mg/ml, DMSO: 5 mg/ml, Ethanol: 5 mg/ml

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

CVT-2738 is an active metabolite of the antianginal agent ranolazine.¹ It is formed from ranolazine by the cytochrome P450 (CYP) isoform CYP3A. CVT-2738 (100 mg/kg) inhibits increases in T-wave height and the RR interval in a mouse model of myocardial ischemia induced by isoprenaline.²

1. Wang, Y., Chen, X., Sun, Z., et al. Development and validation of a sensitive LC-MS/MS assay for simultaneous quantitation of ranolazine and its three metabolites in human plasma. J. Chromatogr. B 889-890:10-16 (2012).
2. Yao, Z., Gong, S., Guan, T., et al. Synthesis of ranolazine metabolites and their anti-myocardial ischemia activities. Chem. Pharm. Bull. (Tokyo) 57(11):1218-1222 (2009).

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

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