

Product Data Sheet

Product Name: CpdA
Cat. No.: GC18258

Chemical Properties

Cas. No. 14593-25-0

Chemical Name 4-[1-chloro-2-(methylamino)ethyl]-phenol 1-acetate, monohydrochloride

SMILES CC(OC1=CC=C(C(Cl)CNC)C=C1)=O.Cl

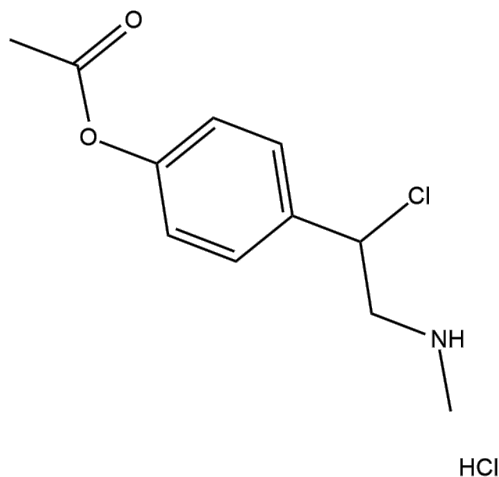
Formula $C_{11}H_{14}ClNO_2 \cdot HCl$ M.Wt 264.1

Solubility DMF: 5 mg/ml, DMSO: 25 mg/ml, Ethanol: 1 mg/ml, PBS (pH 7.2): 10 mg/ml
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

CpdA is a non-steroidal selective glucocorticoid receptor modulator. It is an aziridine precursor that can infiltrate cells and is translocated to the nucleus. It inhibits glucocorticoid receptor dimerization, which prevents transcription of gene targets such as NF-κB and subsequent cytokines through

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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transrepression. Studies have shown contradictory results for binding affinity of CpdA compared with dexamethasone that were either higher (4-fold, $IC_{50} = 6.4$ nM and 25.9 nM, respectively, in L929sA cells) or lower (63-fold, $K_d = 81.8$ nM and 1.29 nM, respectively, in BWTG3 cells) in whole cell binding assays.

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