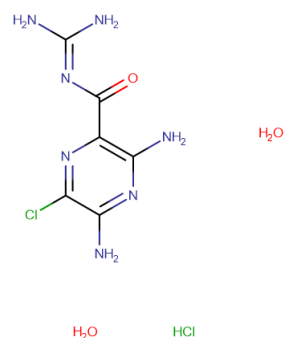


Product Name : Amiloride hydrochloride dihydrate
Synonyms : MK870; MK-870; MK 870; Amiloride Hydrochloride
Cat No. : M12644
CAS Number : 17440-83-4
Molecular Formula : C₆H₈ClN₇O·HCl·2H₂O



Formula Weight : 302.12
Chemical Name : 3,5-Diamino-N-(aminoiminomethyl)-6-chloropyrazinecarboxamide hydrochloride

Description : A pyrazine compound inhibiting sodium reabsorption through sodium channels in renal epithelial cells. This inhibition creates a negative potential in the luminal membranes of principal cells, located in the distal convoluted tubule and collecting duct. Negative potential reduces secretion of potassium and hydrogen ions. Amiloride is used in conjunction with diuretics to spare potassium loss.

Pathway : Membrane Transporter/Ion Channel

Target : Sodium Channel

Receptor : Amiloride-sensitive sodium channel

Solubility : DMSO: 60 mg/mL (198.59 mM)

SMILES : C1(=C(N=C(C(=N1)Cl)N)N)C(=O)N=C(N)N.O.O.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Kelly O, et al. Am J Physiol Renal Physiol. 2003 Dec;285(6):F1279-90.