

Product Name : Bumetanide

Synonyms : Ro 10-6338; PF-1593

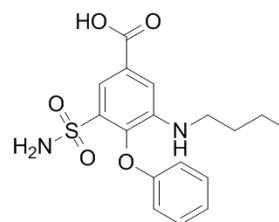
Cat No. : M13862

CAS Number : 28395-03-1

Molecular Formula : C₁₇H₂₀N₂O₅S

Formula Weight : 364.42

Chemical Name : Benzoic acid, 3-(aminosulfonyl)-5-(butylamino)-4-phenoxy-



Description : An inhibitor of Na(+)-K(+)-2Cl(-) co-transporter (NKCC) with an IC₅₀ of 0.6 μM; decreases internal chloride concentration in neurons; inhibits ouabain-resistant 86Rb(K+) influx with IC₅₀ of 0.1, 5.0, and 0.05 μM for J774.2, CT2 and J7H1 macrophages, respectively; a loop diuretic most often used to treat heart failure. Heart Failure Withdrawn

Pathway : Membrane Transporter/Ion Channel

Target : NKCC

Receptor : Na-K-Cl cotransporter

Solubility : 10 mM in DMSO

SMILES : O=C(O)C1=CC(S(=O)(=O)N)=C(OC2=CC=CC=C2)C(NCCCC)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Frelin C, et al. Biochem Biophys Res Commun. 1986 Jan 14;134(1):326-31. 2. Bourrit A, et al. Biochim Biophys Acta. 1985 Jul 11;817(1):85-94.