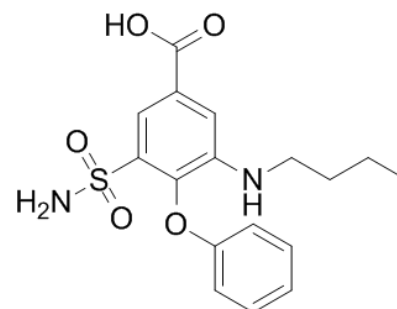


Product Name : Bumetanide
Cat. No. : PC-45286
CAS No. : 28395-03-1
Molecular Formula : C₁₇H₂₀N₂O₅S
Molecular Weight : 364.4161
Target : Na-K-Cl Cotransporter (NKCC)
Solubility : 10 mM in DMSO



Biological Activity

Bumetanide (Ro 10-6338, PF-1593) is an inhibitor of Na(+)-K(+)-2Cl(-) co-transporter (**NKCC**) with an IC₅₀ of 0.6 μM.

Bumetanide (Ro 10-6338, PF-1593) decreases internal chloride concentration in neurons.

Bumetanide (Ro 10-6338, PF-1593) 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.

Bumetanide (Ro 10-6338, PF-1593) is a loop diuretic most often used to treat heart failure.

References

Frelin C, et al. *Biochem Biophys Res Commun*. 1986 Jan 14;134(1):326-31.

Bourrit A, et al. *Biochim Biophys Acta*. 1985 Jul 11;817(1):85-94.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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