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Losartan (potassium salt)

50 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background

Losartan (potassium salt) is a known angiotensin II receptor antagonist by selectively and competitively blocking the binding of the angiotensin II hormone (1). In clinical settings, it is useful as an antihypertensive agent and also displays neuroprotective effects against chronic fatigue stress (2,3). Losartan (potassium salt) inhibits collagen I synthesis and induces sirtuin 1 (Sirt1) expression and activity (4,5).

Molecular Formula

$C_{22}H_{22}ClN_6O \cdot K$

Molecular Weight

461 g/mol

Purity

>99%

CAS

124750-99-8

Solubility

Soluble in DMSO at 45 mg/ml or water at 45 mg/ml.

Storage

Store lyophilized at 4°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 2 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Losartan (potassium salt) is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.08 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Chiu, A.T. et al. (1990) *J Pharmacol Exp Ther* 252, 711-8.
2. McIntyre, M. et al. (1997) *Pharmacol Ther* 74, 181-94.
3. Kumar, A. et al. (2015) *Inflammopharmacology* 23, 291-305.
4. Diop-Frimpong, B. et al. (2011) *Proc Natl Acad Sci U S A* 108, 2909-14.
5. Pantazi, E. et al. (2015) *World J Gastroenterol* 21, 8021-31.

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