NO-Losartan A (CAS: 791122-48-0)

**Catalog Numbers:** LS-H7-1, LS-H7-5, LS-H7-10, LS-H7-50

**Product Name:** NO-Losartan A

**Description:** Angiotensin II is a hormone that plays an important role in regulating blood pressure. Elevated levels of angiotensin II are implicated in inducing and maintaining hypertension, and also in the development of atherosclerosis. Both of these effects are mediated by the angiotensin II type 1 (AT1) receptor. Losartan is a mammalian AT1 receptor antagonist with a Ki value of 5-20 nM. In humans, losartan effectively controls hypertension while protecting renal function. Nitric oxide (NO) causes vasodilation and also inhibits platelet and neutrophil aggregation in the endothelium. NO-losartan A possesses similar anti-hypertensive effects to losartan, with the addition of the vasodilating effects of NO release.

**Formal Name:** [2-butyl-4-chloro-1-[[2`-[(1H-tetrazol-5-yl)[1,1`-biphenyl]-4-yl]methyl]-1H-imidazol-5-yl]methyl ester

**Synonyms:**

**Classification:** biochemical, chemical, antagonist

**CAS Number:** 791122-48-0

**Molecular Formula:** C\textsubscript{30}H\textsubscript{28}ClN\textsubscript{7}O\textsubscript{5}

**Formula Weight:** 602

**Purity:** ≥97%

**Formulation:** A crystalline solid

**λ\textsubscript{max}:** 0

**SMILES:** CCCCCc1nc(C)=O)c2ccc(cc(coc)c1)c1ccc(c(c)c1ccc(c(c)c1nnn[nH])c1


**InChl Key:** MWJCPZGVOVWQZ-UHFFFAOYSA-N

**Conditions:** Shipped at 4°C, store at -20°C, ≥ 2 years shelf life.

**Usage:** NO-Losartan A is supplied as a crystalline solid. A stock solution may be made by dissolving the NO-losartan A in an organic solvent purged with an inert gas. NO-Losartan A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of NO-losartan A in these solvents is approximately 30 mg/ml. NO-Losartan A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NO-losartan A should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. NO-Losartan A has a solubility of approximately 0.5 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.
## Restrictions:
This product is for research use only. Not for administration to humans, or for human or veterinary diagnostic or therapeutic use.

## References: