LHW090-A7

Item No. 18410

Formal Name: (α5)-3'-chloro-α-[[[(1S)-2-ethoxy-1-methyl-2-oxoethyl]amino]-[1,1'-biphenyl]-4-propanoic acid, monosodium salt

MF: C_{20}H_{21}ClNO_{4} • Na

FW: 397.8

Purity: ≥98%

UV/Vis.: λ_{max}: 257 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

LHW090-A7 is supplied as a crystalline solid. A stock solution may be made by dissolving the LHW090-A7 in the solvent of choice. LHW090-A7 is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of LHW090-A7 in these solvents is approximately 1 and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of LHW090-A7 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of LHW090-A7 in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

LHW090-A7 is a compound developed as an inhibitor of neutral endopeptidase (NEP), an enzyme responsible for the metabolic inactivation of enkephalins. Inhibitors of NEP have been shown to increase plasma levels of endogenous atrial natriuretic peptides and, as such, are expected to induce natriuretic and diuretic effects.

Reference