Oseltamivir Acid
Item No. 15779

CAS Registry No.: 187227-45-8
Formal Name: 4R-(acetylamino)-5S-amino-3R-(1-ethylpropoxy)-1-cyclohexene-1-carboxylic acid
Synonyms: GS-4071, Ro 64-0802
MF: C_{14}H_{24}N_{2}O_{4}
FW: 284.4
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Oseltamivir acid is supplied as a crystalline solid. A stock solution may be made by dissolving the oseltamivir acid in the solvent of choice, which should be purged with an inert gas. Oseltamivir acid is soluble in the organic solvent DMSO at a concentration of approximately 5 mg/ml.

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 oseltamivir acid can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of oseltamivir acid in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Oseltamivir (GS-4104) is an antiviral prodrug targeted against the influenza viruses. Oseltamivir acid is the active metabolite of oseltamivir. It acts as an inhibitor of influenza neuraminidases A and B (IC_{50} = 0.1 to 4.9 nM for both enzymes), in this way preventing virus budding and release.

References