Oseltamivir Acid

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: C14H24N2O4
FW: 284.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that oseltamivir acid be stored as supplied at -20°C. It should be stable for at least two years.

Oseltamivir acid is supplied as a crystalline solid. A stock solution may be made by dissolving the oseltamivir acid in the solvent of choice. Oseltamivir acid is soluble in 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.

Oseltamivir (GS-4104) is an antiviral prodrug targeted against the influenza viruses.1-2 Oseltamivir acid is the active metabolite of oseltamivir.3-4 It acts as an inhibitor of influenza neuraminidases A and B (IC50 = 0.1 to 4.9 nM for both enzymes), in this way preventing virus budding and release.5-7

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15779

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wad thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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