

KKI-5 acetate(97145-43-2 free base)

Chemical Properties

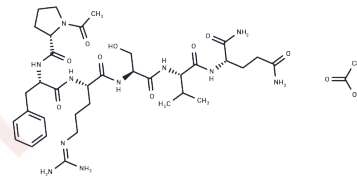
CAS No. :

Formula: C37H59N11O11

Molecular Weight: 833.95

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | KKI-5 acetate is a serine protease inhibitor that inhibits kallikrein and plasmin. KKI 5 may exhibit anticancer chemotherapeutic benefit and may also be used as a treatment for angioedema. |
| Targets(IC50) | Serine Protease |
| In vitro | The KKI-5 Peptide corresponds to aa386-391 of bovine kininogen-1 that encompasses the aa388-389 kallikrein proteolytic site. The synthetic KKI-5 can attenuate breast cancer cell invasion, therefore it is investigated for its role in invasion and metastasis of cancer cells. |

Solubility Information

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|------------|--|
| Solubility | DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.1991 mL | 5.9956 mL | 11.9911 mL |
| 5 mM | 0.2398 mL | 1.1991 mL | 2.3982 mL |
| 10 mM | 0.1199 mL | 0.5996 mL | 1.1991 mL |
| 50 mM | 0.024 mL | 0.1199 mL | 0.2398 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Deshpande MS, et al. Mapping the binding site of tissue kallikrein: preparation and testing of all possible substrate analog inhibitors homologous with the sequence of kininogen between Ser386 and Gln392. J Med Chem. 1992 Aug 21;35(17):3094-102.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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