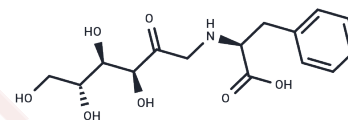


Fructose-phenylalanine

Chemical Properties

CAS No. :	31105-03-0
Formula:	C ₁₅ H ₂₁ N ₀₇
Molecular Weight:	327.33
Storage:	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	Fructose-phenylalanine (Fru-Phe) is a non-competitive inhibitor of angiotensin-converting enzyme (ACE) with an IC ₅₀ of 0.19 mM, exhibiting antioxidant properties. It forms a stable complex with zinc ions (Zn ²⁺) at the active site of ACE, effectively inhibiting the conversion of angiotensin I to angiotensin II, thereby reducing blood pressure. Fructose-phenylalanine shows potential for research in cardiovascular diseases.
Targets(IC ₅₀)	Angiotensin-converting Enzyme (ACE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.055 mL	15.2751 mL	30.5502 mL
5 mM	0.611 mL	3.055 mL	6.110 mL
10 mM	0.3055 mL	1.5275 mL	3.055 mL
50 mM	0.0611 mL	0.3055 mL	0.611 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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