

Gy-CATH

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Keep away from moisture

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	Gy-CATH is an anionic antimicrobial peptide that activates the MAPK and NF- κ B signaling pathways, increasing levels of phosphorylated ERK, p38, JNK, p65, and I κ B α . It upregulates expression levels in three physiological anticoagulant pathways. While Gy-CATH does not exhibit direct antimicrobial activity, it significantly prevents infections caused by Staphylococcus aureus, Escherichia coli, and methicillin-resistant Staphylococcus aureus (MRSA) in mice. Additionally, Gy-CATH suppresses platelet aggregation induced by ADP, collagen, and PMA. It displays strong immunomodulatory activity, enhancing macrophage and neutrophil-mediated bactericidal functions. Furthermore, Gy-CATH markedly reduces lung fibrin deposition and prevents thrombosis in mice.
Targets(IC50)	NF- κ B,JNK,p38 MAPK,PERK

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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