

Product Data Sheet

Product Name: SAP15 acetate

Cat. No.: GC79059

Chemical Properties

Cas. No.

Formula $C_{68}H_{131}N_{31}O_{18}S_3 \cdot xC_2H_4O_2$ M.Wt 1767.16

Solubility $H_2O: \geq 100 \text{ mg/mL}$ Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

SAP15 (Synthetic anti-inflammatory peptide 15) acetate is a synthetic anti-inflammatory peptide consisting of 15 amino acids designed from human beta-defensin 3. SAP15 acetate has the ability to penetrate cells and is able to induce downregulation of intracellular inflammation. SAP15 acetate inhibits inflammation by inhibiting the phosphorylation of HDAC5 and thereby reducing the

Caution: Product has not been fully validated for medical applications. For research use only.

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phosphorylation of NF- κ B p65. SAP15 acetate inhibits HDAC5 and NF- κ B p65 phosphorylation in LPS -induced macrophages. SAP15 acetate increases the expression of aggrecan and type II collagen and decreases the expression of osteocalcin in LPS-induced chondrocytes. SAP15 acetate can be used in the study of inflammation regulation and anti-inflammatory therapy of biomaterials [1].

References:

[1]. Lee J Y, et al. Engineered synthetic cell penetrating peptide with intracellular anti-inflammatory bioactivity: An in vitro and in vivo study[J]. Journal of Biomedical Materials Research Part A, 2021, 109(10): 2001-2016.

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