

Product Data Sheet

Product Name: Mitochondrial-targeted peptide BP29 acetate

Cat. No.: GC79712

Chemical Properties

Cas. No.

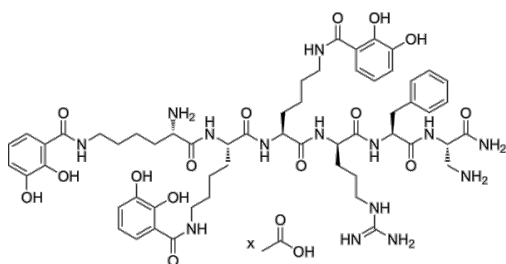
Formula $C_{57}H_{78}N_{14}O_{15} \cdot xC_2H_4O_2$ M.Wt 1199.31

Solubility DMSO: 100 mg/mL (Need ultrasonic) 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

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

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Mitochondrial-targeted peptide BP29 acetate is a mitochondria-targeted iron chelator linked to a mitochondria-homing SS-peptide. Mitochondrial-targeted peptide BP29 acetate protects human primary skin fibroblasts against ultraviolet A-induced oxidative damage to mitochondrial membranes, ATP depletion, and necrotic cell death. Mitochondrial-targeted peptide BP29 acetate prevents hydrogen peroxide-induced oxidative stress and cytotoxicity in both healthy and Friedreich's ataxia skin fibroblasts. Mitochondrial-targeted peptide BP29 acetate can be used for the research of Friedreich's ataxia [1].

In Vitro, Mitochondrial-targeted peptide BP29 (50 μ M; overnight pre-treatment) acetate protects FEK4 human primary skin fibroblasts against ultraviolet A (UVA)-induced oxidative damage and necrotic cell death^[1]. Mitochondrial-targeted peptide BP29 (50 μ M; overnight pre-treatment) acetate protects FRDA skin fibroblasts against UVA-induced cell death^[1]. Mitochondrial-targeted peptide BP29 (50 μ M; overnight pre-treatment) acetate protects FRDA and healthy skin fibroblasts against H₂O₂-induced cytotoxicity^[1].

References:

[1]. Cilibrizzi A, et al. The synthesis and properties of mitochondrial targeted iron chelators. *Biometals*. 2023;36(2):321-337.

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