

Product Data Sheet

Product Name: Ac-ETDK(myr)-AMC acetate

Cat. No.: GC81867

Chemical Properties

Cas. No.

Formula $C_{45}H_{68}N_6O_{13} \cdot xC_2H_4O_2$ M.Wt 901.05

Solubility DMSO: 50 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



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

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Background

Ac-ETDK(myristoyl)-AMC acetate is a DLAT-derived ϵ -N-myristoyllysine peptide substrate for fatty-acid deacylase HDAC11, used in fluorescence-based HDAC11 activity assays. Ac-ETDK(myristoyl)-AMC acetate undergoes cleavage of ϵ -N-myristoyllysine by HDAC11, followed by trypsin-mediated cleavage of C-terminal lysine to release measurable fluorophore AMC [1].

In Vitro, Ac-ETDK(myristoyl)-AMC acetate serves as an efficient ϵ -N-myristoyllysine substrate for recombinant HDAC11 in an AMC-based fluorescence activity assay[1].

References:

[1]. Schäker-Hübner L, et al. Recommended Tool Compounds: Isoform- and Class-Specific Histone Deacetylase Inhibitors. ACS pharmacology & translational science. 2026 Mar 13;9(3):462-489.

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