

Product Data Sheet

Product Name: Ac-DL-Lys(Ac)-OH

Cat. No.: GA20508

Chemical Properties

Cas. No. 35436-74-9

Formula $C_{10}H_{18}N_2O_4$

M.Wt 230.26

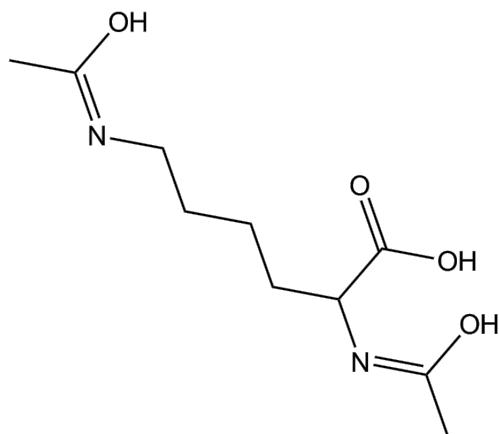
Solubility Soluble in DMSO

Storage Store at -20°C

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

Ac-DL-Lys(Ac)-OH is a diacetyl derivative of lysine and can be used as a building block to synthesize inositol conjugates, which are applied in cancer-targeted therapy^[1]. Ac-DL-Lys(Ac)-OH can form a complex with D-alanine-D-alanine and is used as a model molecule to develop surface stress sensors for detecting active free drugs^[2].

References:

[1] Jaiswal M, Zhu S, Jiang W, et al. Synthesis and evaluation of N α, N ε-diacetyl-L-lysine-inositol conjugates as cancer-selective probes for metabolic engineering of GPIs and GPI-anchored proteins[J]. Organic & biomolecular chemistry, 2020, 18(15): 2938-2948.

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

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[2] Ndieyira J W, Kappeler N, Logan S, et al. Surface-stress sensors for rapid and ultrasensitive detection of active free drugs in human serum[J]. Nature nanotechnology, 2014, 9(3): 225-232.

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