

Product Data Sheet

Product Name: 2A/2B Dengue protease substrate acetate

Cat. No.: GC81863

Chemical Properties

Cas. No.

Formula $C_{39}H_{68}N_{16}O_{11} \cdot xC_2H_4O_2$ M.Wt 937.06

Solubility DMSO: 25 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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2A/2B Dengue protease substrate (Ac-RTSKKR-pNA) acetate is a peptide substrate for the Dengue NS2B-NS3 protease, with a K_i value of 12 μ M. 2A/2B Dengue protease substrate acetate is used in the development of selective peptide-based inhibitors for the Dengue NS2B-NS3 protease [1] [2].

References:

- [1]. Leung D, et al. Activity of recombinant dengue 2 virus NS3 protease in the presence of a truncated NS2B co-factor, small peptide substrates, and inhibitors. J Biol Chem. 2001 Dec 7;276(49):45762-71.
- [2]. Nitsche C, et al. Biochemistry and medicinal chemistry of the dengue virus protease. Chem Rev. 2014 Nov 26;114(22):11348-81.

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