
Product Data Sheet

Product Name: Suc-Ala-Ala-Pro-Leu-pNA

Cat. No.: GA23532

Chemical Properties

Cas. No. 70968-04-6

Formula C₂₇H₃₈N₆O₉ M.Wt 590.63

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

Suc-Ala-Ala-Pro-Leu-pNA is a kind of peptidyl p-nitroanilide substrate in the human seminal plasma (HSP) which can be hydrolyzed by acyl amidase-like leucine aminopeptidase [1]. Suc-Ala-Ala-Pro-Leu-pNA amidolytic activity can be inhibited by some proteinase inhibitors like Amastatin and Actinonin [1]. The recent study indicates that some azoospermia samples showed a very high Suc-Ala-Ala-Pro-Leu-pNA amidolytic activity which may be related to the possible causes for azoospermia [2].

References:

[1] Matsuda Y, Katayama M, Hara I, et al. Inhibitors on an elastase-like enzyme activity catalyzing Suc-Ala-Ala-Pro-Leu-pNA amidolysis in human seminal plasma [J]. Archives of andrology, 2000, 44(1): 1-9.

[2] Ishikawa H, Matsuda Y, Katayama M, et al. Amidolytic activities and prostate-specific antigen in human seminal plasma [J]. Archives of andrology, 1999, 43(2): 141-151.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA