

Product Data Sheet

Product Name: Azocasein

Cat. No.: GD01599

Chemical Properties

Cas. No. 102110-74-7

Formula M.Wt

Solubility 5mg/mL in Water Storage 2-8°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

Azocasein is a useful tracer molecule for characterizing the permeability of the top coat of the multilayer-coated polyester threads [1]. When Azocasein is hydrolyzed, the azo dye is released and can be detected at 410-440nm by ultraviolet spectroscopy [2]. Azocasein has been widely used as a substrate for determining the activity of alkaline proteases in fermentation broth [3]. Azocasein has been widely used to prepare iron-containing composite magnetic particles for the rapid and efficient detection of protease activity of *B. licheniformis* LBA 46 [4].

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

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References:

- [1] Flickinger M C, Mullick A, Ollis D F. Construction of a thread coater and use of azocasein release to characterize the sealant coat porosity of fibers coated with latex biocatalytic coatings[J]. Biotechnology progress, 1999, 15(3): 383-390.
- [2] Pillai K, Akhter J, Mekawy A H, et al. Development and Validation of Micro-Azocasein Assay for Quantifying Bromelain[J]. Methods and Protocols, 2024, 7(2): 25.
- [3] Iversen S L, Jørgensen M H. Azocasein assay for alkaline protease in complex fermentation broth[J]. Biotechnology techniques, 1995, 9(8): 573-576.
- [4] dos Santos Aguilar J G, de Carvalho A K F, Bento H B S, et al. Characterization of magnetic particles of azocasein-iron composite for protease purification[J]. Journal of magnetism and magnetic materials, 2019, 486: 165288.

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