

Product Data Sheet

Product Name: Trypsin(bovine pancreas) (USP,1:2500;2500USPu/mg(BAEE 10000u/mg))
Cat. No.: GB10135

Chemical Properties

Cas. No. 9002-07-7

Formula M.Wt

Solubility 30mg/mL in Water Storage Store at 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

Trypsin(bovine pancreas) (USP,1:2500;2500USPu/mg(BAEE 10000u/mg)), specifically hydrolyzes the carboxyl-terminal peptide bonds or ester bonds of lysine or arginine [2]. The optimal pH range of Trypsin is 8.0-8.8 and Calcium ions can stabilize the activity of Trypsin[2]. When the temperature rises, the hydrophobic part of Trypsin becomes exposed and undergoes irreversible aggregation[3]. Trypsin is used for the detachment of adherent cells to digest the adhesion molecules by which the cells are attached to the surface of the culture flask[4]. Trypsin is commonly used in activity assays

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

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and inhibitor screening^[5].

References:

- [1] Soreide K, Janssen E A, Körner H, et al. Trypsin in colorectal cancer: molecular biological mechanisms of proliferation, invasion, and metastasis[J]. The Journal of Pathology: A Journal of the Pathological Society of Great Britain and Ireland, 2006, 209(2): 147-156.
- [2] Woodard S L, Mayor J M, Bailey M R, et al. Maize (Zea mays)-derived bovine trypsin: characterization of the first large-scale, commercial protein product from transgenic plants[J]. Biotechnology and applied biochemistry, 2003, 38(2): 123-130.
- [3] Trampari S, Papagiannopoulos A, Pispas S. Temperature-induced aggregation behavior in bovine pancreas trypsin solutions[J]. Biochemical and Biophysical Research Communications, 2019, 515(2): 282-288.
- [4] Mótyán J A, Tóth F, Tőzsér J. Research applications of proteolytic enzymes in molecular biology[J]. Biomolecules, 2013, 3(4): 923-942.
- [5] Vlasova I, Krüsselmann P, Kostenko Y, et al. The assessment of chemical composition and biological activity of faba bean pods as a potential feed additive utilized in piglets nutrition[J]. Scientific Reports, 2025, 15(1): 1234.

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