
Product Data Sheet

Product Name: BSA-Palmitate Saturated Fatty Acid Complex (5 mM)

Cat. No.: GC46103

Chemical Properties

Cas. No. N/A

SMILES N/A

Formula N/A M.Wt N/A

Solubility Storage Store at -20°C, protect from light

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

BSA-Palmitate Saturated Fatty Acid Complex is composed of palmitic acid (PA) and bovine serum albumin (BSA) in a molar ratio of approximately 6:1. It can be used to effectively deliver fatty acids (FA) to cells in culture to monitor fatty acid oxidation or similar processes in various cell metabolism studies^[1-3]. BSA is one of the most abundant proteins in plasma and helps regulate the colloidal osmotic pressure of blood. It can be used in studies such as cell culture, immunochemistry, and protein quantification^[4].

BSA/BSA-FA can be used for short-term cell culture applications (acute treatment up to 18h), but for long-term applications (more than 25h), the product should be filter-sterilized using a 0.2µm filter and sterile containers without affecting performance. For best results, it is recommended that this product be used in conjunction with the BSA Control of Fatty Acid Complex (Cat. No. GC46102).

References:

[1] Alsabeeh N, Chausse B, Kakimoto P A, et al. Cell culture models of fatty acid overload: Problems and solutions[J]. Biochimica et Biophysica Acta (BBA)-Molecular and

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

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Cell Biology of Lipids, 2018, 1863(2): 143-151.

[2] Wang D, Green M F, McDonnell E, et al. Oxygen flux analysis to understand the biological function of sirtuins[J]. Sirtuins: Methods and Protocols, 2013: 241-258.

[3] Bentebibel A, Sebastián D, Herrero L, et al. Novel effect of C75 on carnitine palmitoyltransferase I activity and palmitate oxidation[J]. Biochemistry, 2006, 45(14): 4339-4350.

[4] Jin M, Zhu S, Hou Y. Insight on serum albumin: from structure and biological properties to functional biomaterials for bone repair[J]. ACS Biomaterials Science & Engineering, 2023, 9(5): 2235-2250.

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