
Product Data Sheet

Product Name: egg white lysozyme (19-36) [Gallus gallus]

Cat. No.: GP10136

Chemical Properties

Cas. No.

Formula $C_{86}H_{144}N_{28}O_{23}S_2$

M.Wt

2002.37

Solubility $\geq 402.3\text{mg/mL}$ 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**

Sequence: H2N-KVFGRCELAAAMKRHGLD-OH

Formula of Egg white lysozyme (19-36) [Gallus gallus]:

 $C_{86}H_{144}N_{28}O_{23}S_2$

Hen egg white lysozyme has a molecular weight of about 14,600 and each molecule comprises 129 amino acid residues¹.

The crystals have unit cell dimensions $a = b = 79.1$, $c = 37.9$ Å and space group P43212, and there are eight molecules in the unit cell, one per asymmetric unit². Liquid of crystallization constitutes about 33.5 per cent of the weight of the crystal³.

The activity of lysozyme in promoting the dissolution of bacterial cell walls is now known to depend upon its ability to catalyze the hydrolysis of ,3-(1-4) glycosidic linkages between amino sugar residues in poly-saccharide components of these cell walls¹.

References:

1. David C. Phillips. The Hen Egg-White Lysozyme Molecule. (1967) Proceedings of the National Academy of Sciences of the United States of America, 57: 483-495
2. Blake, C. C. F., E. H. Fenn, A. C. T. North, D. C. Phillips, and t. J. Polijak, Nature, 196, 1173 (1962).
3. Steinrauf, L. K., Acta Cryst., 12, 77 (1959).

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

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