
Product Data Sheet

Product Name: T7 Tag Peptide
 Cat. No.: GP10156

Chemical Properties

Cas. No. 245445-88-9

Chemical Name T7 Tag

SMILES CC(C(C(=O)NCC(=O)NCC(=O)NC(CCC(=O)N)C(=O)NC(CCC(=O)N)C(=O)NC(CCSC)C(=O)NCC(=O)O)NC(=O)C(CCSC)NC(=O)C(CO)NC

Formula C₄₁H₇₁N₁₃O₁₆S₃

M.Wt

1098.27

Solubility >54.9mg/mL in DMSO

Storage

Desiccate at -20°C

General 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 tips 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

The T7 tag is an epitope tag composed of an 11-residue peptide encoded from the leader sequence of the T7 bacteriophage gene10. This gene encodes a T7 major capsid protein whose function is not clear. Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties.

The T7 tag is commonly engineered onto the N- or C- terminus of a protein of interest so that the tagged protein can be analyzed and visualized using immunochemical methods. The T7 tag has been used extensively as a general epitope tag in many expression vectors including the pET system that is based on T7 RNA polymerase expression systems [1].

References:

1. Studier, F.W. and Moffatt, B.A. (1986). Use of bacteriophage T7 RNA polymerase to direct selective high-level expression of cloned genes. J Mol Biol 189, 113-30.

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

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