

Product Data Sheet

Product Name: S Tag Peptide

Cat. No.: GP10155

Chemical Properties

Cas. No. 7429-70-1

Chemical Name S Tag

SMILES CC(C(C(=O)NC(C)C(=O)NC(C)C(=O)NC(C)C(=O)NC(CCCCN)C(=O)NC(CC1=CC=CC=C1)C(=O)NC(CCC(=O)O)C(=O)NC(CCCNC(=N)N)C(=O)NC(CCC(=O)N)C(=O)NC(CC2=CN=CN2)C(=O)NC(CCSC)C(=O)NC(CC(=O)O)C(=O)NC(CO)C(=O)O)NC(=O)C(CC(=O)O)NC(=O)C(CCCCN)N)O

Formula C₇₃H₁₁₇N₂₃O₂₅S M.Wt 1748.91

Solubility ≥174.9mg/mL in DMSO, ≥50 mg/mL in Water Storage Desiccate 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.

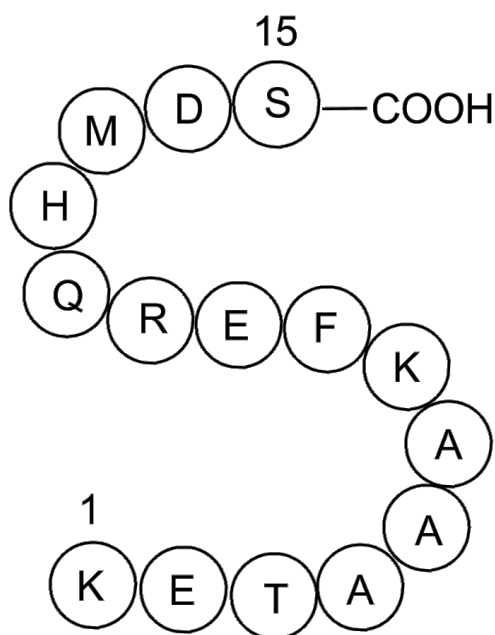
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

S Tag Peptide, a 15-amino acid peptide derived from ribonuclease A, binds to S protein to regenerate active enzyme with a K_D of $>10^{-9}M$ [1]. S Tag Peptide serves as a fusion tag for recombinant proteins, facilitating detection by a rapid and sensitive homogeneous assay and by colorimetric detection in Western blots [2]. S Tag Peptide is a tunable peptide tag that allows functional proteins to be cross-linked at specific sites [3]. A protein purification S-tag fusion system can be developed by

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using S Tag Peptide in antibody and epitope labeling techniques, which allows for automation and makes the system easier to use in a variety of high-throughput screening scenarios [4].

References:

- [1] Hus C H, Rad N F, Hackbarth J S, et al. S-peptide epitope tagging for protein purification, expression monitoring, and localization in mammalian cells[J]. Biotechniques, 2004, 37(5): 835-839.
- [2] McCormick M, Mierendorf R. S. Tag™: A multipurpose fusion peptide for recombinant proteins[J]. InNovations, 1994, 1: 4-7.
- [3] Kamiya N, Tanaka T, Suzuki T, et al. S-peptide as a potent peptidyl linker for protein cross-linking by microbial transglutaminase from *Streptomyces mobaraensis*[J]. Bioconjugate chemistry, 2003, 14(2): 351-357.
- [4] Raines R T, McCormick M, Van Oosbree T R, et al. [23] The S· tag fusion system for protein purification[M]//Methods in enzymology. Academic Press, 2000, 326: 362-376.

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