

---

## Product Data Sheet

---

Product Name: Hexa His tag peptide  
Cat. No.: GP10154

### Chemical Properties

Cas. No. 64134-30-1

Chemical Name Hexa His

SMILES C1=C(NN=C1)CC(C(=O)NC(CC2=CC=NN2)C(=O)NC(CC3=CC=NN3)C(=O)NC(CC4=CC=NN4)C(=O)NC(CC5=CC=NN5)C(=O)NC(CC6

Formula  $C_{36}H_{44}N_{18}O_7$  M.Wt 840

Solubility  $\geq 84.1$ mg/mL in DMSO,  $\geq 123.4$  mg/mL in EtOH with ultrasonic,  $\geq 67.5$  mg/mL in Water Storage Des

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 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

The Hexa His tag peptide is a short peptide composed of six consecutive histidine residues and also serves as a purification tag for fusion proteins. The Hexa His tag peptide can chelate with metal ions such as nickel and cobalt. Recombinant proteins can be efficiently purified by immobilized metal ion affinity chromatography<sup>[1]</sup>. The Hexa His tag peptide is commonly used to prepare protein mimics for nanocrystals<sup>[2]</sup>.

#### References:

[1] Schmidt TG, Koepke J, Frank R, et al. Molecular interaction between the Strep-tag affinity peptide and its cognate target, streptavidin. J Mol Biol. 1996 Feb 9;255(5):753-66.

[2] Zhou W, Baneyx F. Biofabrication of ZnS:Mn luminescent nanocrystals using histidine, hexahistidine, and His-tagged proteins: a comparison study. Biochem Eng J. 2014 Aug 15;89:28-32.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA