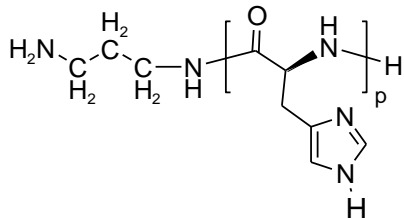


**Sample Name:**  $\alpha,\omega$ -Diamino terminated Poly L-Histidine

**Sample#:** P40853-His2NH2

**Structure:**

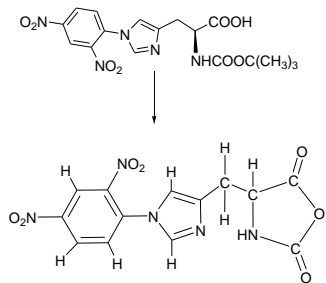


**Composition:**

| Mn x 10 <sup>3</sup> | PDI             |
|----------------------|-----------------|
| 6.0(by HNMR)         | < 1.3<br>By GPC |

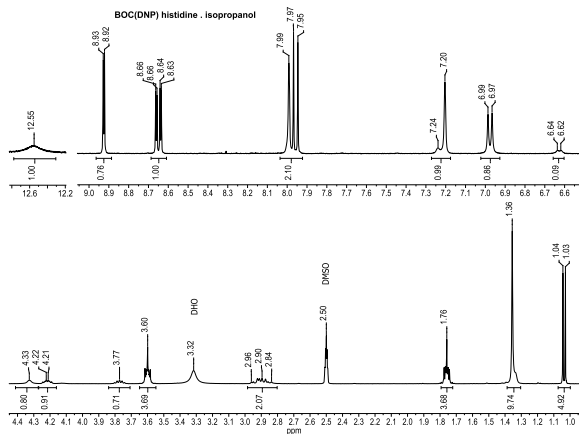
**Synthesis:**

Dinitro Phenyl histidine N-carboxy anhydride (NCA (DNP) Histidine) was prepared from BOC (DNP) Histidine isopropanol presented as below scheme:



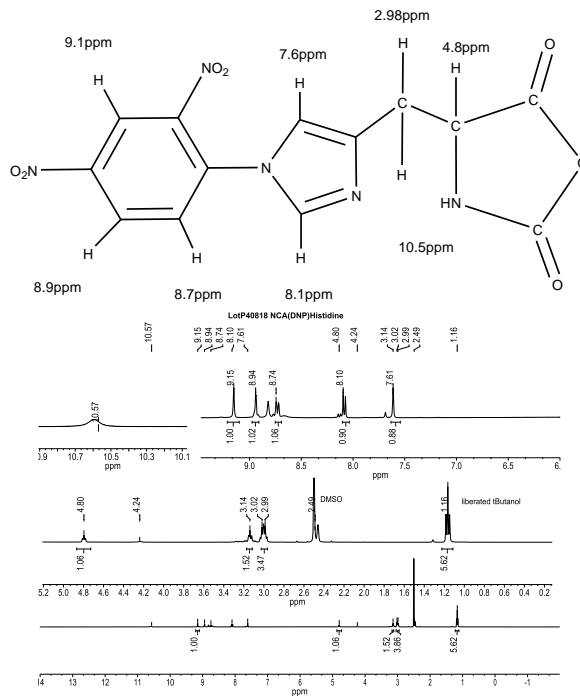
**Solubility:** The polymer is soluble in water.

**<sup>1</sup>HNMR spectrum of BOC-(DNP) Histidine.**  
**Isopropanol run in dMSO d6;**

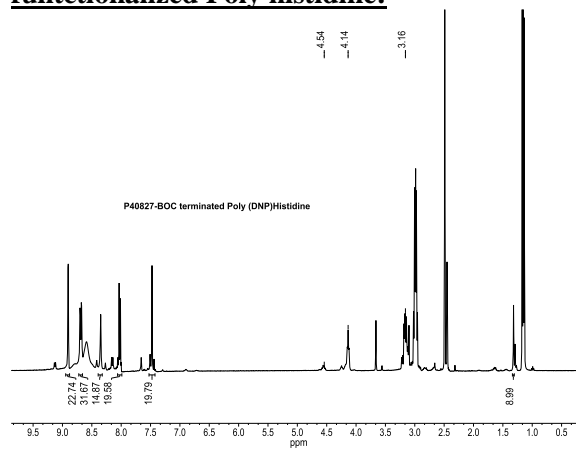


**<sup>1</sup>HNMR spectrum of BOC-(DNP) Histidine.**  
**Isopropanol run in dMSO d6;**

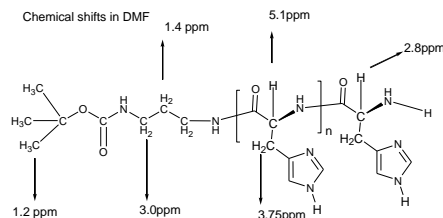
Chemical Shifts in d6 dMSO



**<sup>1</sup>HNMR spectrum of BOC-(DNP) amino end**  
**functionalized Poly histidine:**



chemical shifts in DMSO:



**<sup>1</sup>H NMR spectrum of Poly Histidine-2NH2:**

