

Mobile Phase — 90% ACN + 0.025% HCOOH --- 80% MeOH + 0.3% CH₃COOH

S2 Figure. Mass spectra for the HbS bT1 peptide (Parent Ion) acquired in MS1 scan and its y7fragment (daughter Ion) acquired in MS2 scan. All spectra were recorded in 'Multi Channel Analysis' mode acquisition during 30 s with automatic cycle time adjustment and 2.0 s scan duration. The spectra were obtained by infusing solutions of the peptide ($1.0 \mu g/mL$) dissolved in an acetonitrilebased (solid line) and methanol-based (dotted) mobile phase.