TC evneriment							Notes
representations estimated Ka sample del Unione (approximate) number of injections injection volume dilution factor for single injection (d') dilution factor after final injection (d'n) cell concentration c-value syringe concentration		25 C 1006-166 1/M L 14 mL 14 mL 10 0L 0.990285714285714 0.990284714285714 0.9902847143857 10.00 uM 10.00 uM 10.00 uM 10.00 uM 10.00 uM			actual 7 99 uM 9 99 6 34 6 98 41 uM	error 021 uM 0.04 7.94 uM	percent error 2.67%. 0.42%
LIGAND  compound name description product no. product no. punty molecular weight solubility	CBSCarboxybenzeneaufonamic (CBS Assured and all 97% purity Sprons-Address and all 97% purity CDG944796 attick6F3323V	95. 55. 97.00% 97.00% 463 mg/L	2,251.49 UM				Color key Mi in before experiment fil in during experiment automatically computed
Stock solution preparation target compound mass buffer volume needed for target mass buffer volume needed for target mass buffer volume needed for actual mass purity-corrected stock solution concentration	(most balances need min 10 mg) (for planning buffer usage) (use this for actual preparation) (be careful not to exceed solubility)	desired 10 mg 24.11 mL 24.55 mL 24.000 uM	typical error 0.1 mg 0.49 mL 44.72 uM	typical percent error 1.00% 2.00% 2.24%	actual 10.1 mg 25.099 mL 1,940.03 uM	0.1 mg 0.067 mL	percent error 0.99% (used marked balance uncertainty (min: 10 mg +- 0.1 mg) 0.27% used P5000 multiple times to avoid accuracy loss of serological pipeties 1.03%
Symple solution preparation dilution factor from stock to titrant solution stock solution volume buffer volume for titrant titrant concentration	(need min 2.1 mL)	desired 0.370 1.881 mL 3.149 mL 718.29 uM	typical error 0.003 0.02 mL 0.002 mL 0.03 mL 0.04 mL 15 uM	typical percent error 0.89% 1.00% 1.00% 0.	actual 0.38000 1.8 mL 3.2 mL 5 mL 698 uM	0.00176 0.00176 0.0012 mL 0.0012 mL 0.017 mL 8 uM	percent error 0.49% 0.67% use systematic error from Gilson P5000, 2000 uL transfer 0.38% used systematic error from Gilson P5000, 2000 uL transfer 0.34% (this error is included in the 'actual error' in thermodynamic parameters 1.14% below)
PROTEIN protein name source foi no. molar extinction coefficient protein purity (or 100% if unknown)	cartonic arhydrase II (CAII) Sigma-Adrich (25522-25mg	50070 M-1 cm-1 80.00%					
Dilution for UV-Vis absorbance measurement dilution factor of absorbance measurement volume of stock solution volume of buffer solution volume of buffer solution rotati volume of buffer solution rotati volume of dilution absorbance measurement concentration of dilution concentration of stock solution purity-corrected concentration of stock solution purity-corrected concentration of stock solution		Desired 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	typical error 0.001 0.001 0.1 ol. 0.1 ol. 1.5 ol. 1.50 ol.		actual 0.062.50 u. 150 u. 150 u. 150 u. 150 u. 150 u. 153.50 u. 15	0.0006 0.0006 0.1 u.l. 1.6 u.l. 1.63 u.l. 0.01 A. 0.01 A. 0.20 u.M. 4.33 u.M. 3.47 u.M.	percent error NanoDrop is linear over very large A280 due to short path length 137% used systematic error for Glson P20, 20 Lt transfer 107% used systematic error for Glson P20, 100 Lt transfer 107% used systematic error for Glson P20, 100 Lt transfer 100% used error from spec manual (for 200-350nm) 203% 203%
Cell solution preparation dilution factor stock solution volume buffer volume total volume for titrate titrate concentration	(need ca. 2.1 mLexperiment)	desired 0.05852 0.283 mL 4.71 mL 5.00 mL	typical error 0.00078 0.0003 mL 0.005 mL 0.05 mL 0.05 mL 0.05 mL		actual 0.04676 0.224 m.L 4.77 m.L 5.00 m.L 7.99 uM	0.0081 0.0081 0.004 mL 0.03 mL 0.030 mL 0.030 uL	Add a section for UV-VIS measurement of protein final dilution 1,74% 1,7
retainments from Organi in in (stoichiometry, purity, and Vo correction) in (stoichiometry, purity, and Vo correction) in (dissociation constant) Deliash Deliash Deliash		reported from fit 1.28E-06 M-1 8.00E-07 M -1.08 kcalmol 8.32 kcalmol	2.55E-08 M 2.55E-08 M 2.000 CO	percent error from fit 0.51% 3.19% 0.08% 0.04%	actual 0.926 1.28E+06 M-1 8.00E-07 M -10 8 kcalmol -2.48 kcalmol -8.32 kcalmol	error 0.006 4.24E+04 M-1 2.71E-08 M 0.14 Kealmol 0.02 Kealmol	percent error 0.61% Origin if used purity-corrected protein concentration in cell 3.33% 3.33% 5.38% 6.81% 6.0.24%