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| **Table S1.** Buffers used for purification under native conditions. | |
| **Buffers** | **Composition** |
| Equilibration buffer | 50 mM NaH2PO4.H2O, 300 mM NaCl, 10 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Lysis buffer | 50 mM NaH2PO4.H2O, 300 mM NaCl, 10 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Washing buffer 1 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 25 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Washing buffer 2 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 50 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Elution buffer 1 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 250 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Elution buffer 2 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 500 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |

**Expression and functional characterization of an anti-CD22 scFv targeting B-cell malignancies**

Supplementary data:

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| **Table S2**. Buffers used for purification under hybrid conditions. | |
| **Buffer** | **Composition** |
| Lysis buffers | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 8 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Washing buffers 1 | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 10 mM Imidazole, 6 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Washing buffers 2 | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 10 mM Imidazole, 4 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Washing buffers 3 | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 20 mM Imidazole, 2 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Washing buffers 4 | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 20 mM Imidazole, 1 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Washing buffers 5 | 100 mM NaH2PO4.H2O, 10 mM Tris. Base, 20 mM Imidazole, 0 M Urea. Adjust to pH 8.0 using NaOH 1M |
| Elution buffers 1 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 300 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |
| Elution buffers 2 | 50 mM NaH2PO4.H2O, 300 mM NaCl, 500 mM Imidazole. Adjust to pH 8.0 using NaOH 1M |