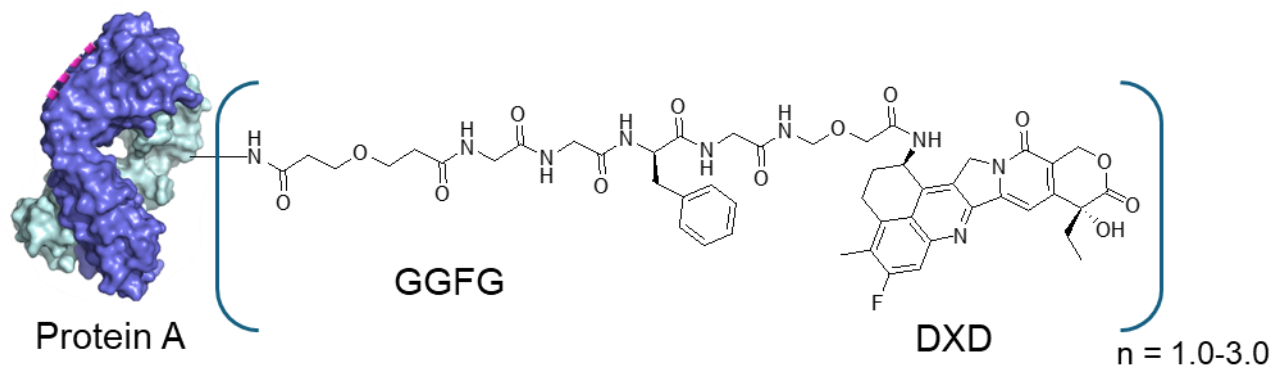


Catalog# BP-50151

Protein A-DXD (cleavable)

Description:

Protein A-DXD is a Protein-drug conjugate (PDC) of Protein A with topoisomerase inhibitor (DXD) conjugate through a cleavable linker. >95% protein A were conjugated with DXD, the DPR (drug protein ratio) $n = 1-3$ drugs per protein. Protein A is a 42 kDa surface protein originally found in the cell wall of the bacterium *Staphylococcus aureus*. The protein is composed of five homologous Ig-binding domains that fold into a three-helix bundle. Each domain can bind proteins from many mammalian species, most notably IgGs (immunoglobulins). Protein A has the remarkable ability to bind to the Fc region of most immunoglobulins. It binds the heavy chain within the Fc region of most immunoglobulins and also within the Fab region in the case of the human VH3 family. The Dxd (Exatecan derivative for ADC) is a potent DNA topoisomerase I inhibitor topoisomerase inhibitor, with an IC₅₀ of 0.31 μM . This product is for research use only. The Protein A-DXD has the following chemical structure:



Product Details	
Reactivity	Bind to the Fc region of most immunoglobulins
Source	<i>E. coli</i>
Type	Recombinant Protein
M.W.	~44,600 (Apparent MW by SDS-PAGE: 45,000)
Measurement	A275 of 0.1% solution: ~0.149
Isoelectric point (pI)	4.7-4.8
Conjugation	Protein A conjugated with -GGFG-Exatecan (DX-8951)
DPR (Drug to Protein Ratio)	>95% protein conjugated, 1-3 drugs per protein
Form	Liquid
Concentration	1 mg/ml
Purification	Size Exclusive Column
Storage buffer	20 mM Sodium Borate, 6% Trehalose, pH8.0
Storage conditions	4°C for short time, -20°C or -80°C for long time.