

Recombinant Human B-cell Lymphoma-extra Large (rHuBcl-xL)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	601-42
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 23.7 kDa, a single non-glycosylated polypeptide chain containing 211 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	SQSNRELVVD FLSYKLSQKG YSWSQFSDVE ENRTEAPEGT ESEMETPSAI NGNPSWHLAD SPAVNGATGH SSSLDAREVI PMAAVKQALR EAGDEFELRY RRAFSDLTSQ LHITPGTAYQ SFEQVVNELF RDGVNWGRIV AFFSFGGALC VESVDKEMQV LVSRIAAMWA TYLNDHLEPW IQENGGWDTF VELYGNNAAA ESRKGQERFN R
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Test in Process.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 5 % Trehalose.
Endotoxin:	Less than 0.1 EU/µg of rHuBcl-xL as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

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Bcl-X, also named as BCL2L1 or BCL2L, belongs to the Bcl-2 family and it is encoded by the BCL2L1 gene in human. Alternative splicing of Bcl-X results in at least two isoforms, isoform Bcl-X(L) (also named as Bcl-xL) and isoform Bcl-x(S) (also named as Bcl-xS). Bcl-xL is found in tissues containing long-lived postmitotic cells, such as adult brain, while Bcl-xS is expressed at high levels in cells that undergo a high rate of turnover, such as developing lymphocytes. Bcl-X forms homodimer or heterodimer with other Bcl-2 proteins, like BAK, BAX or Bcl-2, to act as anti- or pro- apoptotic regulators. Bcl-xL appears to regulate cell death by blocking the voltage-dependent anion channel (VDAC) by binding to it and preventing the release of the caspase activator, CYC1, from the mitochondrial membrane, and it also acts as a regulator of G2 checkpoint and progression to cytokinesis during mitosis. In contrast, Bcl-xS is a pro-apoptotic protein that promotes apoptosis.