

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	602-31
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 41.0 kDa, a homodimeric protein consisting of two 178 amino acid non-glycosylated polypeptide chains.
Quantity:	2µg/10µg/1000µg
AA Sequence:	QDSTSDLIPA PLSKVPLQQ NFQDNQFQGK WYVVGLAGNA ILREDKDPQK MYATIIYELKE DKSYNVTSVL FRKKKCDYWI RTFVPGCQPG EFTLGNIKSY PGLTSYLVRV VSTNYNQHAM VFFKKVSQNR EYFKITLYGR TKELTSELKE NFIRFSKSLG LPENHIVFPV PIDQCIDG
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 0.05 % Tween-20.
Endotoxin:	Less than 0.1 EU/µg of rHuLCN2 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.

Human Lipocalin-2

The Lipocalin family comprises a diverse group of mostly secreted soluble proteins that bind hydrophobic ligands and act as transporters, carrying small molecules to specific cells. Lipocalins are related by possessing an 8-stranded beta-barrel structure. Lipocalin-1, also named tear lipocalin (TL), von Ebners gland protein (VEG) and tear pre-albumin, binds a large number of hydrophobic molecules and exhibits cysteine proteinase inhibitor and endonuclear activities. Lipocalin-2, also known as neutrophil gelatinase-associated lipocalin (NGAL), is a component of granules in neutrophils from tissues that are normally exposed to microorganisms and is upregulated during inflammation. Lipocalin-2 can form homodimers and can heterodimerize with the neutrophil gelatinase MMP-9.