

Recombinant Murine Heparin-binding EGF-like Growth Factor (rMuHB-EGF)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	125-08
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 9.8 kDa, a single non-glycosylated polypeptide chain containing 86 amino acids.
Quantity:	10µg/50µg/1000µg
AA Sequence:	DLEGTDLNLF KVAFSSKPGQ LATPSKERNG KKKKKGKGLG KKRDPCLRKY KDYCIHGECR YLQEFRTSPC KCLPGYHGHR CHGLTL
Purity:	> 97 % 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 murine Balb/c 3T3 cells is less than 1 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, 500 mM NaCl, pH7.4.
Endotoxin:	Less than 1 EU/µg of rMuHB-EGF 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.

Murine Heparin-binding EGF-like Growth Factor

Heparin-binding epidermal growth factor (HB-EGF)-like growth factor (EGF) is found in cerebral neurons. Its expression is increased after hypoxic or ischemic injury, which also stimulates neurogenesis. HB-EGF has been implicated as a participant in a variety of normal physiological processes such as blastocyst implantation and wound healing, and in pathological processes such as tumor growth, SMC hyperplasia and atherosclerosis. The protein is an 87 amino acid mitogenic and chemotactic glycoprotein containing an EGF-like domain with six conserved cysteine residues. Murine HB-EGF shares about 81 % a.a. sequence identity with human HB-EGF.