

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant HB-EGF, Human

Catalog Number: BK0218-5 $\mu$ g

Source: CHO

Quantity: 5 $\mu$ g

### Description:

Proheparin-binding EGF-like growth factor (HB-EGF), also known as DTR, DTS and HEGFL, is a member of the EGF family of mitogens. It is expressed in macrophages, monocytes, endothelial cells and muscle cells. HB-EGF signals through the EGF receptor to stimulate the proliferation of smooth muscle cells, epithelial cells and keratinocytes. Compared to EGF, HB-EGF binds the EGF receptor with higher affinity and is thus more mitogenic, probably due to its ability to bind to heparin and heparin sulfate proteoglycans. HB-EGF has been reported to act as a diphtheria toxin receptor, mediating endocytosis of the bound toxin.

### Molecular Weight:

12-14 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

ED50 <0.5 ng/ml, measured in a cell proliferation assay using 3T3 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

DLQEADLDLLRVTLSKPKQALATPNKEE-  
HGKRKKKKGKGLGKKRDPCLRKYKDFCIH-  
GECKYVKELRAPSCICHPGYHGERCHGLSL

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant Human HB-EGF remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human HB-EGF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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