

Product Datasheet

RecombinantHB-EGF,Human (orb1494849)

_ _ _ ...

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 to the EGF receptor with a higher affinity and has been shown to bemore mitogenic, likely due to its ability to bind to heparin and heparin sulfate proteoglycans. HB-EGF has also been reported to act as a diphtheria toxin receptor, mediating endocytosis of the bound toxin. Heparin-binding EGF-like growth factor has been shown to interact with NRD1, Zinc finger and BTB domain-containing protein 16 and BAG1.Recombinant Human HB-EGF produced in E.coli cells is a polypeptide chain containing 86 amino acids. A fully biologically active molecule, rhHB-EGF has a molecular mass of 14 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/ μ g, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant Human Proheparin-binding EGF-like Growth Factor (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 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH2O or PBS at 100 μ g/ml.
Protein Sequence	GD LQEADLDLLR VTLSSKPQAL ATPNKEEHGK RKKKGKGLGK KRDPCLRKYK DFCIHGECKY VKELRAPSCI CHPGYHGERC HGLSL
Purity	> 95% as analyzed by SDS-PAGE.
Source	Escherichia coli.

Biorbyt Ltd.

7 Signet Court, Swann's Road, Cambridge, CB5 8LA, United Kingdom Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+44 (0) 1223 859-353</u> | Fax: <u>+1 (415) 651-8558</u>

Biorbyt LLC.

68 TW Alexander Drive, Durham, NC, 27713, United States Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+1 (415) 906-5211</u> | Fax: <u>+1 (415) 651-8558</u>



Biorbyt.com

MW 14 kDa, observed by reducing SDS-PAGE.

Expiration Date

Biorbyt Ltd.

7 Signet Court, Swann's Road, Cambridge, CB5 8LA, United Kingdom Email: info@biorbyt.com, support@biorbyt.com Phone: <u>+44 (0) 1223 859-353</u> | Fax: <u>+1 (415) 651-8558</u>

Biorbyt LLC.

68 TW Alexander Drive, Durham, NC, 27713, United States Email: info@biorbyt.com, support@biorbyt.com Phone: <u>+1 (415) 906-5211</u> | Fax: <u>+1 (415) 651-8558</u>