

Recombinant Rat Heparin-binding EGF-like Growth Factor (Rat HB-EGF)

Product Information

Product Name	Cat#	Size
	92706ES10	10 µg
Recombinant Rat Heparin-binding EGF-like Growth Factor (Rat HB-EGF)	92706ES60	100 µg
	92706ES76	500 µg

Product Description

Heparin-binding epidermal growth factor (HB-EGF)-like growth factor (EGF) is found in cerebral neurons. Human HB-EGF shares 76% and 73% aa sequence identity with rat and mouse HB-EGF. 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.

Product Properties

Synonyms	HBEGF, DT-R
Accession	Q06175
GeneID	25433
Source	E.coli-derived rat HB-EGF protein, Asp63-Leu148.
Molecular Weight	Approximately 9.7 kDa.
AA Sequence	DLEGTDLDLF KVAFSSKPQA LATPGKEKNG KKKRKGKGLG KKRDPCLKKY KDYCIHGECR YLKELRIPSC HCLPGYHGQR CHGLTL
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using mouse Balb/c 3T3 cells is less than 1 ng/mL, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, 300 mM NaCl, pH 7.4, 5% trehalose. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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 and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!