



Recombinant Human Epidermal Growth Factor, OsrEGF Lyophilized Powder

Version 5.0 Revision Date: 18.08.2018

Print Date: 18.08.2018

Source: Rice Grain (*Oryza Sativa*)

Catalog No. : HYC020M01

Introduction

Human EGF is a 6.2kD protein with 53 amino acid residues and three intramolecular disulfide bonds. By binding with high affinity to epidermal growth factor receptor (EGFR) on the cell surface, EGF results in a variety of biochemical changes within the cell: a rise in intracellular calcium levels, increased glycolysis and protein synthesis, and increases in the expression of certain genes including the gene for EGFR that ultimately lead to DNA synthesis and cell proliferation.

Specification

Physical Appearance: White lyophilized powder

Formulation: OsrEGF is lyophilized with Mannitol as the stabilizer.

Purity: Greater than 95% as determined by SDS-PAGE.

Biological activity: The bioactivity determined by a cell proliferation assay using Balb/c 3T3, corresponding to a specific activity of $\geq 1 \times 10^6$ Units/mg.

Endotoxin: Less than 5EU/mg

Preparation and Storage

Reconstitution: It is recommended to reconstitute OsrEGF at 100-200ug/ml in sterile water. Further dilutions can be made in other aqueous buffer.

Stability and Storage: Lyophilized OsrEGF can remain stable at -20°C for at least 36 months. Upon reconstitution OsrEGF should be stored at 4°C for 1 month and for future use at -20°C.

Please avoid repeated freeze-thaw cycles.

Features and Benefits

Scalable: The manufacture capability at multi-gram scales to meet your bulk processing needs.

Stability and Activity in Culture: Providing consistent performance with lower cost and time consuming, especially in bioprocessing.

FOR RESEARCH, LABORATORY AND MANUFACTURE USE ONLY. NOT INTENDED FOR DIRECT USE ON HUMANS.