

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant OTOR, Human

Catalog Number: BK0150-10µg

Source: Escherichia coli.

Quantity: 10µg

Description:

Otoraplin (OTOR) is a cytokine first identified in 2000 and encodes a small protein of 128 amino acids with an SH3 domain. OTOR is a homologue to CD-RAP/MIA and contains a hydrophobic N-terminal region as a signal peptide, which indicates that OTOR is mainly secreted. Researchers found that high expression of OTOR is only seen in the cochlea, demonstrating its importance in hearing. Indeed, loss of the gene produces cochlear dysfunction and otosclerosis, a hearing disorder involving the bony tissue of the ear. OTOR exerts an influence on the surrounding otic capsule and functions in the extracellular matrix of the membranous portion of the cochlea. Recombinant human Otoraplin (rhOTOR) produced in E.coli is a single non-glycosylated polypeptide chain containing 112 amino acids. rhOTOR has a molecular mass of 12.7 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

12.7 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

Data not available.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MVH-
GIFMDRLASKKLCADDECVYTISLASAQEDY-
NAPDCRFINVKKGQQIYVYSKLVKEN-
GAGEFWAGSVYG-
DGQDEMGGVGYFPRNLVKEQRVYQEAT-
KEVPTTDIDFFCE

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 µg/mL.

Storage:

Lyophilized recombinant human Otoraplin (rhOTOR) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhOTOR remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.