

Recombinant Human OTOR Protein (112 aa)

Cat. No. OTOR-3180 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	112
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Data not available.
Molecular Mass	12.7 kDa, observed by reducing SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MVHGIFMDRLASKKLCADDECVTISLASAQEDYNAPDCRFINVKKGQQIYVYSKLV KENGAGEFWAGSVYGDGQDEMGVVGYPFRLVKEQRVYQEATKEVPTTDDIFFCE
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant human Otoraplin (rhOTOR) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhOTOR remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	OTOR otoraplin [Homo sapiens]
Official Symbol	OTOR
Synonyms	OTOR; otoraplin; FDP; MIAL; MIAL1; fibrocyte-derived protein; melanoma inhibitory activity-like protein; MGC126737; MGC126739;
Gene ID	56914
mRNA Refseq	NM_020157
Protein Refseq	NP_064542
MIM	606067

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

Q9NRC9

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA