

## Recombinant Human OTOR Protein (111 aa)

**Cat. No.** OTOR-2100    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant human Otoraplin (OTOR) produced in CHO cells is a single non-glycosylated polypeptide chain containing 111 amino acids. A fully biologically active molecule, rhOTOR has a molecular mass of 14-15 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

**Species**                      Human

**Source**                        CHO

**ProteinLength**              111

**Description**                OTOR, also called Otoraplin and MIAL, is a secreted cytokine and a member of the melanoma-inhibiting activity gene family. Members of this family which also includes MIA, MIA2, and TANGO share a SRC homology-3 (SH3)-like domain. OTOR appears to be involved in early chondrogenesis of the otic capsule, which is required for normal inner ear development and auditory function. OTOR is highly homologous to MIA/cartilage-derived retinoic acid-sensitive protein (CD-RAP), which is a cartilage-specific protein that is also expressed in malignant melanoma cells. The 111 amino acid mature human otoraplin contains 1 SH3 domain (46-107 amino acids) and a Tyr at position 50 that is reportedly sulfated. Otoraplin takes part in the initiation of periotic mesenchyme chondrogenesis.

**Form**                            Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity**                 Data Not Available.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

<b>Molecular Mass</b>	14-15 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYSKLVKE NGAGEFWAGSVYGDGQDEMGGVGYFPRNLVKEQRVYQEATKEVPTTDDIDFFCE
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant human Otoraplin (OTOR) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human Otoraplin (OTOR) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

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

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



<b>MIM</b>	606067
<b>UniProt ID</b>	Q9NRC9

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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