# Recombinant Human Otoraplin

**Cat. No.** OTOR-22H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | OTOR, also called Otoraplin and MIAL, is a secreted cytokine and a member of the MIA/OTOR family. Members of this family which also includes MIA, MIA2, and TANGO share a Src homology-3 (SH3)-like domain. OTOR is predominantly expressed in the cochlea of the inner-ear and to a lesser extent in fetal brain and in some cartilage tissues. OTOR appears to be involved in early chondrogenesis of the otic capsule, which is required for normal inner ear development and auditory function. |
| **Molecular Weight** | 12.7 kDa, a single, non-glycosylated polypeptide chain containing 112 amino acids. |
| **AA Sequence** | MVHGIFMDRL ASKKLCADDE CVYTISLASA QEDYNAPDCR FINVK GQQI YVYSKLVKENGAGEFWAGSVYGDGQDEMG VVGYFPRNLV KEQRVY QE AT KEVPTTDIDF FCE. |
| **Physical Appearance** | Sterile Filtered White lyophilized (freeze-dried) powder. |
| **Purity** | >97% by SDS-PAGE and HPLC analyses. |
| **Formulation** | Lyophilized from a 0.2μm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH |

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

| | |
|---|---|
| | 7.4, 150mM NaCl. |
| **Biological Activity** | Data Not Available. |
| **Endotoxin** | Less than 1EU/μg of rHuOTOR as determined by LAL method. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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. |
| **Storage** | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | OTOR otoraplin [ Homo sapiens ] |
| **Synonyms** | OTOR; otoraplin; FDP; MIAL; MIAL1; MGC126737; MGC126739; Otoraplin;Fibrocyte-derived protein; Melanoma inhibitory activity-like protein |
| **Gene ID** | 56914 |
| **mRNA Refseq** | NM_020157 |
| **Protein Refseq** | NP_064542 |

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

| | |
|---|---|
| **MIM** | 606067 |
| **UniProt ID** | Q9NRC9 |
| **Chromosome Location** | 20p12.1-p11.23 |

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