

## Product Datasheet

### RecombinantOTOR,Human (orb1494780)

<b>Catalog Number</b>	orb1494780
<b>Category</b>	Proteins
<b>Description</b>	<p>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 (rOTOR) produced in E.coli is a single non-glycosylated polypeptide chain containing 112 amino acids. rOTOR has a molecular mass of 12.7 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.</p>
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Buffer/Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Purification</b>	> 95% by SDS-PAGE analysis.
<b>Protein Sequence</b>	MVHGIFMDR LASKKLCADD ECVYTISLAS AQEDYNAPDC RFINVKKGQQ IYVYSKLVKE NGAGEFWAGS VYGDGQDEMG VVGYPFRNLV KEQRVYQEAT KEVPTTIDIDF FCE
<b>MW</b>	12.7 kDa, observed by reducing SDS-PAGE.
<b>Application notes</b>	Reconstituted in ddH2O at 100 µg/mL.
<b>Endotoxins</b>	0.2 EU/µg, determined by LAL method.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

<b>Source</b>	Escherichia coli.
<b>Biological Activity</b>	Data not available.
<b>Storage</b>	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.
<b>Note</b>	For research use only
<b>Expiration Date</b>	6 months from date of receipt.

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**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)