

Recombinant Human Otoraplin

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

SPECIFICATION

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 VVG YFPRNLV 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 7.4, 150mM NaCl.

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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
MIM	606067

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UniProt ID	Q9NRC9
Chromosome Location	20p12.1-p11.23

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