Recombinant Human OTOR Protein (111 aa)

Cat. No. OTOR-210O **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.

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Molecular Mass	14-15 kDa, observed by reducing SDS-PAGE.
AA Sequence	VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYSKLVKE NGAGEFWAGSVYGDGQDEMGVVGYFPRNLVKEQRVYQEATKEVPTTDIDFFCE
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS 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

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MIM	606067
UniProt ID	Q9NRC9

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