

Recombinant Human OTOR

CATALOG #:	4987-20 4987-1000	20 µg 1 mg
LOT #:	_____	
SYNONYMS:	Otoraplin, Fibrocyte-derived protein, Melanoma inhibitory activity-like protein, OTOR, MIAL, FDP, MIAL1, MGC126737, MGC126739	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of human OTOR.	
MOLECULAR WT:	12.7 kDa	
FORM:	The OTOR protein was lyophilized from a concentrated (1 mg/ml) solution containing 20 mM PBS pH-7.4 and 130 mM NaCl.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH₂O to a concentration of 0.1 -1 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human OTOR is best-stored desiccated below 0°C. Reconstituted OTOR should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

DESCRIPTION:

TOR proteins is also known as fibrocyte-derived protein (Fdp) and Melanoma inhibitory activity-like (MIAL). Otoraplin is a member of the melanoma-inhibiting activity gene family. Otoraplin is a secreted 16 kDa globular protein that is expressed in the inner ear by periotic mesenchyme and developing and mature fibrocytes. 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. Otoraplin is secreted through the Golgi apparatus and plays a role in cartilage development and maintenance. A frequent polymorphism in the translation start codon of OTOR can abolish translation and may be associated with forms of deafness. Recombinant human Otoraplin produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 111 amino acids and having a molecular mass of 12.7 kDa. The OTOR is purified by proprietary chromatographic techniques.

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