

Otoraplin (OTOR), human recombinant protein

Otoraplin, Fibrocyte-derived protein, Melanoma inhibitory activity-like protein, OTOR, MIAL, FDP, MI
Catalog # PBV10521r

Specification

Otoraplin (OTOR), human recombinant protein - Product info

Primary Accession [O9NRC9](#)
Calculated MW **12.7 kDa** KDa

Otoraplin (OTOR), human recombinant protein - Additional Info

Gene ID **56914**
Gene Symbol **OTOR**

Other Names

Otoraplin, Fibrocyte-derived protein, Melanoma inhibitory activity-like protein, OTOR, MIAL, FDP, MIAL1, MGC126737, MGC126739,

Gene Source **Human**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC; ≥98%**
Recombinant **Yes**

Application Notes

Reconstitute in sterile dH₂O to a concentration of 0.1 -1 mg/ml. This solution can then be diluted into other aqueous buffers

Format

Lyophilized protein

Storage

-20°C; Sterile filtered and lyophilized from a concentrated (1 mg/ml) solution containing 20 mM PBS pH-7.4 and 130 mM NaCl.

Otoraplin (OTOR), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Otoraplin (OTOR), human recombinant protein - Images

Otoraplin (OTOR), human recombinant protein - Background

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.

Otoraplin (OTOR), human recombinant protein - References

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Cohen-Salmon M., et al. J. Biol. Chem. 275:40036-40041(2000).
Rendtorff N.D., et al. Genomics 71:40-52(2001).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Deloukas P., et al. Nature 414:865-871(2001).