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## Product Data Sheet

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Product Name: OTOR Human  
 Cat. No.: GP20808  
 Batch No.: 1

**Product Data**

Purity >98% Source Escherichia Coli.  
 Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Otoraplin; Fibrocyte-derived protein; Melanoma inhibitory activity-like protein; OTOR; MIAL; FDP; MIAL1; MGC126737; MGC126739.

Amino Acid Sequence VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYSKLVKENGAGEFWAGSVYGDGQDEMGGVVGYPFRNLVKEQRVYQEAT

Solubility It is recommended to reconstitute the lyophilized Otoraplin in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further added to other aqueous solutions.

Formulation The OTOR protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM NaCl.

**Introduction**

OTOR 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 uC 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.

**Stability**

Lyophilized OTOR Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution OTOR should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Background**

Otoraplin Human Recombinant 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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