
Product Data Sheet

Product Name: OTOR Human, His

Cat. No.: GP20809

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Otoraplin; Melanoma Inhibitory Activity-Like Protein; Fibrocyte-Derived Protein; FDP; MIAL1; MIAL; Melanoma inhibitory activity-like protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFMLASKK LCADDECVTY ISLASAQEDY NAPDCRFINV KKGQQIYVYSKLVKENGAGE FWAGSVYGDG QDEMGVVGYP PRNLVKEQRV YQEATKEVPT TDIDFFCE.		
Formulation	OTOR protein solution (0.25mg/ml) containing Phosphatebuffered saline (pH7.4), 30% glycerol and 1mM DTT.		

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 μ C 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

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

OTOR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 128 amino acids (26-128 a.a) and having a molecular mass of 14.3kDa. OTOR is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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