9051 Mira Mesa Blvd, #910094
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OTOR Human

Otoraplin Human Recombinant
CYK0491

Product Overview

Name	OTOR Human
Description	
Otoraplin Human Recombinant	
Accession (Primary)	Q9NRC9
Synonyms	
Otoraplin, Fibrocyte-derived protein, Melanoma inhibitory activity-like protein, OTOR, MIAL, FDP, MIAL1, MGC126737, MGC126739.	
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 – 107 amino acids) and a Tyr at position 50 that is reportedly sulfated. Otoraplin takes pasrt 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The OTOR protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM NaCl.	
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.	

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Purity

Greater than 98.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYS

KLVKENGAGEFWAGSVYGDGQDEMGVVGYFPRNLVKEQRVYQEATKEVPTT DIDFFCE.

Solubility

It is recommended to reconstitute the lyophilized Otoraplin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

OTOR Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NRC9)