

[Go to Product page](#)

Datasheet for ABIN2018309

Otoraplin Protein (OTOR) (AA 18-128)

Overview

Quantity:	50 µg
Target:	Otoraplin (OTOR)
Protein Characteristics:	AA 18-128
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Characteristics:	AA 18-128, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Otoraplin (OTOR)
Abstract:	OTOR Products
Background:	<p>Otoraplin (OTOR) is a cytokine first identified in 2000 and encodes a small protein of 128 amino acids with an SH3 domain. OTOR is a homologue to CD-RAP/MIA and contains a hydrophobic N-terminal region as a signal peptide, which indicates that OTOR is mainly secreted.</p> <p>Researchers found that high expression of OTOR is only seen in the cochlea, demonstrating its importance in hearing. Indeed, loss of the gene produces cochlear dysfunction and otosclerosis, a hearing disorder involving the bony tissue of the ear. OTOR exerts an influence</p>

Target Details

on the surrounding otic capsule and functions in the extracellular matrix of the membranous portion of the cochlea. Recombinant human Otoraplin (rhOTOR) produced in E. coli is a single non-glycosylated polypeptide chain containing 112 amino acids. rhOTOR has a molecular mass of 12.7 kDa analyzed by reducing SDS-PAGE.

Synonyms: FDP, MIAL

Molecular Weight: 12.7 kDa, observed by reducing SDS-PAGE.

UniProt: [Q9NRC9](#)

Pathways: [Sensory Perception of Sound](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Otoraplin (rhOTOR) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhOTOR remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months