Recombinant Human OTOR protein

Cat. No. OTOR-4933H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OTOR protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	111
Description	OTOR also named Otoraplin and MIAL, is a 15 kDa disulfide bonded homodimer, which is secreted via the Golgi apparatus and is a member of the MIA/OTOR family. Members of this family which also includes MIA, MIA2, and TANGO share a Src homology-3 (SH3)-like domain. OTOR is mainly expressed in the cochlea of the inner-ear and appears to be involved in early chondrogenesis of the otic capsule, which is required for normal inner ear development and auditory function. The OTOR shares high sequence identity with the mouse (90%), chicken (80%), and bullfrog (60%) orthologs and with the related human CDRAP/MIA protein (43%).
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM PB, pH 7.4, 150mM NaCl.
Molecular Mass	Approximately 12.7 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.
AA Sequence	VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQQIYVYSKLVKE NGAGEFWAGSVYGDGQDEMGVVGYFPRNLVKEQRVYQEATKEVPTTDIDFFCE

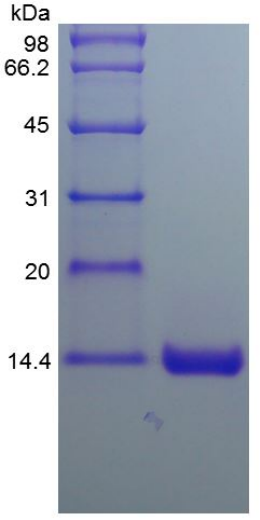
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Endotoxin	Less than 1 EU/μg of rHuOTOR as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	OTOR
Official Symbol	OTOR
Synonyms	OTOR; otoraplin; FDP; MIAL; MIAL1; fibrocyte-derived protein; melanoma inhibitory activity-like protein; MGC126737; MGC126739;
Gene ID	56914
mRNA Refseq	NM_020157
Protein Refseq	NP_064542
MIM	606067

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UniProt ID	Q9NRC9
SDS-PAGE of OTOR-4933H	

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