

Recombinant Human Otoraplin

#R00536

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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%).

AA Sequence

VHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPD
CRFINVKKGQQIYVYSKLVKENGAGEFWAGSVYGDG
QDEMGVVGYFPRNLVKEQRVYQEATKEVPTTDIDFF

CE

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 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Fibrocyte-derived Protein, Melanoma Inhibitory Activity-like Protein
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 12.7 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150mM

NaCl.

Endotoxin	Less than 1 EU/μg of rHuOTOR as determined by LAL method.
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