



Technical Data Sheet

Recombinant Human Otoraplin (rHu OTOR)

Human Otoraplin

OTOR, also called Otoraplin and MIAL, is a secreted cytokine and 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 predominantly expressed in the cochlea of the inner-ear and to a lesser extent in fetal brain and in some cartilage tissues. OTOR appears to be involved in early chondrogenesis of the otic capsule, which is required for normal inner ear development and auditory function.

Catalog Number:	RC712-14
Source:	<i>Escherichia coli</i>
Molecular Weight:	12.7 kDa, a single non-glycosylated polypeptide chain containing 112 amino acids.
Quantity:	5ug/20ug/1mg
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 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 150mM NaCl.
AA Sequence:	MVHGIFMDRLASKKLCADDECVYTISLASAQEDYNAPDCRFINVKKGQIQIY VYSKLVKENGAGEFWAGSVYGDGQDEMGG VVGYPFRNLV KEQRVYQEAT KEVPTTDIDF FCE
Endotoxin:	Less than 1EU/µg of rHuOTOR as determined by LAL method.
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.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.