

Recombinant Human Otoraplin (Human OTOR)

Product Information

Product Name	Cat#	Size
Recombinant Human Otoraplin (Human OTOR)	92561ES08	5 µg
	92561ES60	100 µg
	92561ES76	500 µg

Product 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. 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%). 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. It 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.

Product Properties

Synonyms	Fibrocyte-derived Protein, Melanoma Inhibitory Activity-like Protein
Accession	Q9NRC9
GeneID	56914
Source	E.coli-derived human OTOR protein, V1a18-Glu128.
Molecular Weight	Approximately 12.7 kDa.
AA Sequence	VHGIFMDRLA SKKLCADDEC VYTISLASAQ EDYNAPDCRF INVKKGQIQY VYSKLVKENG AGEFWAGSVY GDGQDEMGGV GYFPRNLVKE QRVYQEATKE VPTTDDIDFFC E
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	Testing in progress.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.

3. For research use only!