Proteins



Product Data Sheet

Otolin-1 Protein, Human (HEK293, His)

Cat. No.: HY-P70965

OTOL1; otolin 1; Otolin-1; C1qTNF15 Synonyms:

Species: Human Source: HEK293

A6NHN0 (K24-P477) Accession:

Gene ID: 131149 Molecular Weight: 84-94 kDa

PROPERTIES

AA Sequence		
	KTTPHTKFTK KSEEREMPKG LKPSSGPPPE EEETLFTEMA	
	EMAEPITKPS ALDSVFGTAT LSPFENFTLD PADFFLNCCD	
	CCSPVPGQKG EPGETGQPGP KGEAGNLGIP GPPGVVGPQG	
	PRGYKGEKGL KGERGDQGVP GYPGKPGAQG EPGPKGDKGN	
	IGLGGVKGQK GSKGDTCGNC TKGEKGDQGA MGSPGLHGGP	
	GAKGEKGEMG EKGEMGDKGC CGDSGERGGK GQKGEGGMKG	
	EKGSKGDSGM EGKSGRNGLP GAKGDPGIKG EKGELGPPGL	
	LGPTGPKGDI GNKGVRGPTG KKGSRGFKGS KGELARVPRS	
	AFSAGLSKPF PPPNIPIKFE KILYNDQGNY SPVTGKFNCS	
	IPGTYVFSYH ITVRGRPARI SLVAQNKKQF KSRETLYGQE	
	IDQASLLVIL KLSAGDQVWL EVSKDWNGVY VSAEDDSIFT	
	G F L L Y P E E T S G I S P	
Appearance	Lyophilized powder.	
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 5% Trehalose, pH 7.4.	
Ford Associational		
Endotoxin Level	<1 EU/µg, determined by LAL method.	
Da an maikiku ki am		
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.	
Chausan O Chabilita		
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is	

DESCRIPTION

Shipping

Background Otolin-1 is a collagen-like protein with specific expression in the inner ear, functioning as a crucial component in the

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

formation of otoconia—an essential calcium carbonate structure located in the saccule and utricle of the ear. This protein acts as an organic scaffold, facilitating biomineralization by sequestering calcium and forming interconnecting fibrils between otoconia. Otolin-1's involvement in this process is further highlighted by its incorporation into the calcium crystal structure. Alongside OC90, Otolin-1 plays a role in modulating calcite crystal morphology and growth kinetics. The protein exists as a homooligomer, likely forming homotrimers through disulfide linkages. Additionally, Otolin-1 interacts with OC90 and CBLN1, underscoring its intricate involvement in the molecular interactions crucial for inner ear function. (

Caution: Product has not been fully validated for medical applications. For research use only.

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