

SIL-CLU protein standard – Arg/Lys ¹³ C ¹⁵ N labelling		
Human Clusterin protein (Uniprot accession number P10909)		
Product Description	<p>Human Clusterin protein (CLU) – also known as Apolipoprotein J – is a heterodimeric protein encoded by a single gene and internally cleaved in cells to produce its alpha and beta subunits.</p> <p>Recombinant human CLU was expressed in HEK cells with polyHis purification tag and purified using proprietary method including affinity chromatography.</p>	
Protein sequence	<p><u>DQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLIEKTNEERKTLLSNLE</u> <u>EAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQTCMKFYA</u> <u>RVCRSGSGLVGRQLEEFLNQSSPFYFWMNGDRIDSLENDRQQTHMLDVMQ</u> <u>DHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRIVRSLMPF</u> <u>SPYEPLNFHAMFQPFLEMIHEAQQAMDIHFHSPAFQHPPTFEFIREGDDDRTV</u> <u>REIRHNSTGCLRMKDQCDKCREILSVCSTNPNPSQAKLRRELDLQVAERLT</u> <u>RKYNELLSYQWKMLNTSSLLEQLNEQFNWWSRLANLTQGEDQYYLRVTTV</u> <u>ASHTSDSDVPSGVTEVVVKLFDSDPITVTVPEVSRKNPKFMETVAEKALQEY</u> <u>RKKHREEHHHHHHHHH</u> (alpha subunit underlined)</p>	
Predicted Molecular Mass	51.2 kDa (alpha subunit: 27.0 kDa with polyHis tag – beta subunit 24.2 kDa)	
Expression system	HEK (Human Embryonic Kidney) cell line	
Purity	Greater than 80% as determined by SDS-PAGE analysis (Non-reducing conditions NRNH – Reducing conditions RH)	
Labelling	ARG- ¹³ C ₆ , ¹⁵ N ₄ and LYS- ¹³ C ₆ , ¹⁵ N ₄ >99% as determined by LC-MS/MS analysis of trypsin digested SIL-protein	
Tag information	PolyHis tag at the C-terminus of alpha subunit	
Protein Content	Quantitation is carried out by BCA protein assay using BSA as standard.	
Formulation	Lyophilized - PBS buffer Reconstitute by adding H ₂ O	
Shipping and storage	<p>The product is supplied as a lyophilized powder and shipped at room temperature. Store at -20°C upon receipt. After reconstitution, protein can be kept at 4°C for a few weeks.</p>	
Usage	The product is for research use only. Not for diagnostic or therapeutic use.	

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