

SIL-AFP protein standard – Arg/Lys <sup>13</sup> C <sup>15</sup> N labelling		
Human Alpha-fetoprotein protein (Uniprot accession number P02771)		
Product Description	Human Alpha-fetoprotein protein (AFP) was expressed in HEK cells with polyHis purification tag and purified using proprietary method including affinity chromatography and Ion Exchange chromatography.	
Protein sequence	<p>RTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALT            AIEKPTGDEQSSGLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCF            LAHKKPTPASIFLQVPEPVTSCAEYEDRETFMNFYIYIARRHPFLYAPTILL            WAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGT            RTFQAITVTKLSQKFTKVNFTIQLKLVLDVAHVHEHCCRGDVLDCLDQGEKIM            SYICSQQDTLSNKITECCKLTTLARGQCIIHAENDEKPEGLSPNLNRFGLDRDF            NQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAKGYQELLEKCFQTENPLE            CQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTS            SELMAITRKMAATAATCCQLSEDKLLACGEGAADIIGHLCIRHEMTPVNPVG            QCCTSSYANRRPCFSSLVDETYVPPAFSDDKFIFHKDLCCQAQGVALQTMKQ            EFLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFAEEGQKLISKTR            AALGVHHHHHHH</p>	
Predicted Molecular Mass	67.6 kDa	
Expression system	HEK (Human Embryonic Kidney) cell line	
Purity	Greater than 90% as determined by SDS-PAGE analysis (Non-reducing conditions NRNH – Reducing conditions RH)	
Labelling	ARG- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> and LYS- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> >99% as determined by LC-MS/MS analysis of trypsin digested SIL-protein	
Tag information	PolyHis tag at the C-terminus	
Protein Content	Quantitation is carried out by BCA protein assay using BSA as standard.	
Formulation	Lyophilized - 20 mM Tris pH7.6, 0.1M NaCl buffer Reconstitute by adding H <sub>2</sub> O	
Shipping and storage	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.	
Usage	The product is for research use only. Not for diagnostic or therapeutic use.	

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