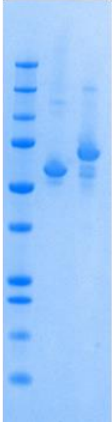


| SIL-AFP protein standard – Arg/Lys <sup>13</sup> C <sup>15</sup> N labelling |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 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                                                             | RTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALT<br>AIEKPTGDEQSSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCF<br>LAHKKPTPASIPLFQVPEPVTSCAEYEEDRETFMNKFIEIARRHPFLYAPTILL<br>WAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGT<br>RTFQAITVTKLSQKFTKVNFTIQKLVLDVAHVHEHCCRGDVLDCLDQGEKIM<br>SYICSQQDTLSNKITECCKLTTLERGQCIIHAENDEKPEGLSPNLNRLGDRDF<br>NQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAKGYQELLEKCFQTENPLE<br>CQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTS<br>SELMAITRKMAATAATCCQLSEDKLLACGEGAADIIGHLCIRHEMTPVNPVG<br>QCCTSSYANRRPCFSSLVDETYVPPAFSDDKFIFHKDLCAQAGVALQTMKQ<br>EFLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFAEEGQKLISKTR<br>AALGVHHHHHHHH |                                                                                                                      |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div>NR RH</div> <div>NH</div>  |
| 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 of alpha subunit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| 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<br>Reconstitute by adding H2O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      |
| Shipping and storage                                                         | The product is supplied as a lyophilized powder and shipped at room temperature.<br>Store at -20°C upon receipt.<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                      |