

Product

name

Catalog

number

Uniprot ID

Human AFP

SIL-protein

AF099901

P02771

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Product description

Human alpha fetoprotein (AFP) is a glycoprotein derived mainly from fetal liver. It is a well-known diagnostic biomarker used in medicine to detect fetal developmental anomalies. Labelled AFP is a recombinant protein, stable isotope labelled (SIL),

designed for use as an internal standard for quantitative analysis of AFP by mass spectrometry (MS).

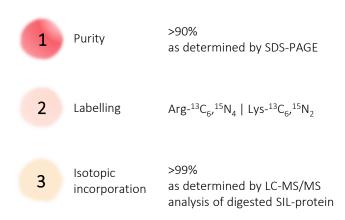
Synonyms: Alpha-1-fetoprotein, Alpha-fetoglobulin

Protein sequence

RTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKPTGDEQSSGCLENQLPAFLEELCHEKEILEKYGHSDCCS QSEEGRHNCFLAHKKPTPASIPLFQVPEPVTSCEAYEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTK ELRESSLLNQHACAVMKNFGTRTFQAITVTKLSQKFTKVNFTEIQKLVLDVAHVHEHCCRGDVLDCLQDGEKIMSYICSQQDTLSNKITECCKL TTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAKGYQELLEKCFQTENPLECQDKGEEE LQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAITRKMAATAATCCQLSEDKLLACGEGAADIIIGHLCIRHEMTPVNP GVGQCCTSSYANRRPCFSSLVVDETYVPPAFSDDKFIFHKDLCQAQGVALQTMKQEFLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQE VCFAEEGQKLISKTRAALGVHHHHHHH

Product features and protocols

Key features



Other features

Predicted MW	67.6 kDa
Expression System	HEK (Human Embryonic Kidney) cell line
Purification Tag	PolyHis tag at the C-terminus end
Protein content	Determined by BCA assay with BSA as standard
Formulation	Lyophilized from 20 mM Tris pH=7.6, 0.1 M NaCl buffer

Product preparation

For product preparation we recommend the following steps:

- 1. Briefly centrifuge the tube before opening
- Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 μg/ml (e.g. 50 μl for 10 μg or 250 μl for 50 μg conditioning)
- 3. Vortex gently to insure complete dissolution
- 4. Wait 15 minutes at room temperature before proceeding further
- 5. Vortex gently again and centrifuge briefly

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Product storage

The product is lyophilized and shipped at ambient temperature. **Store at -80 °C upon receipt.**

After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles



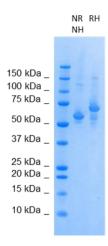
How to use our product

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SIL proteins allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has potential positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information



SDS-PAGE gel analysis of AFP protein in non-reduced/ nonheated conditions (NR/NH) and Reduced/Heated conditions (RH) and stained with Coomassie blue.

References

 G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363

The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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