

Product

name

Catalog

number

Uniprot ID

Human AFP

SIL-protein

AF099901

P02771

Tel : +33 (0) 4.38.02.36.50 contact@promise-proteomics.com www.promise-proteomics.com

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).

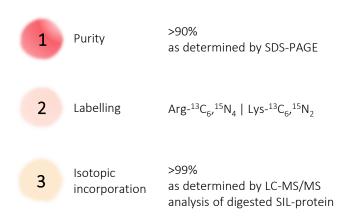
Synonyms: Alpha-1-fetoprotein, Alpha-fetoglobulin

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

PROMISE Proteomics SAS, BHT 52A 7, parvis Louis Néel – CS20050 38040 Grenoble Cedex 9 – France

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



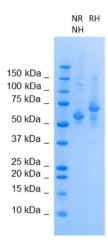
How to use our product

6

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

This product is licensed under U.S. Patent No. 7,396,688 and foreign counterparts from E. I. du Pont de Nemours and Company. The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product for research and development only. Information about licenses for other uses is available from: E. I. du Pont de Nemours and Company; Attn: Associate Director, Commercial Development; DuPont Experimental Station E268; 200 Powdermill Rd.; Wilmington, DE 19803; 1-877-881-9787 (voice), 1-302-695-1437 (fax), licensing@dupont.com.