

Product name	human HSA SIL-protein	
Catalog number	AL170196	
Uniprot ID	P02768	

Product description

Human serum albumin (HSA) protein, the most abundant protein in human blood, functions in the regulation of blood plasma colloid osmotic pressure and acts as a carrier protein for a wide range of endogenous molecules including hormones, fatty acids, and metabolites, as well as exogenous drugs.

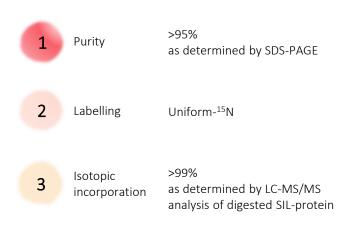
Labelled HSA is a recombinant protein, stable isotope labelled (SIL), designed for use as an internal standard for quantitative analysis of HSA by mass spectrometry (MS).

Protein sequence

DAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAKTCVADESAENCDKSLHTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLQHKDDNPNLPRLVRPEVDVMCTAFHDNEETFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELRD EGKASSAKQRLKCASLQKFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYICENQDSISSKLKECCEKP LLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHPDYSVVLLLRLAKTYETTLEKCCAAADPHECYAKVFDEF KPLVEEPQNLIKQNCELFEQLGEYKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPVSD RVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETFTFHADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCCKADDKET CFAEEGKKLVAASQAALGL

Product features and protocols

Key features



Other features

Predicted MW	67 kDa
Expression System	P. pastoris
Purification Tag	No tag
Protein content	Determined by Bradford assay with BSA as standard
Formulation	Lyophilized from 20 mM Tris pH=7.4; 100 mM 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



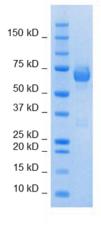
How to use our product

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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 HSA protein in Reduced/Heated conditions (RH) and stained with Coomassie blue.

References

1. 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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