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Product name	Human DBP SIL-Protein
Catalog number	DB128581
Uniprot ID	P02774

Product description

Human Vitamin D binding (DBP) protein has many physiologically important functions, ranging from transporting vitamin D, binding and sequestering globular actin and binding fatty acids to possible roles in inflammation and in the immune system.

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

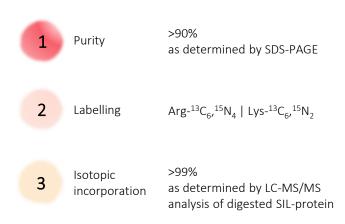
Synonyms: VDB, Gc protein-derived macrophage factor , Gc-globulin, Vitamin D-binding protein-macrophage activating factor

Protein sequence

LERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAEC CTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRKDPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQ LKHLSLLTTLSNRVCSQYAAYGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCCQE KTAMDVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMDKYTFELSRRTHLPEVFLSKVLEPTLKSLGECCDVEDSTTCFNAKGPLLKKEL SSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPKELAKLVNKRSDFASNCCSINSPPLYCDSEIDAELKNILHHHHHHHH

Product features and protocols

Key features



Other features

Predicted MW	52.3 kDa
Expression System	E.Coli
Purification Tag	PolyHis tag at the C-terminus end
Protein content	Determined by BCA assay with BSA as standard
Formulation	Lyophilized from PBS 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
- 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 room 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



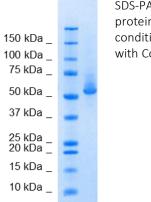
How to use our product

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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 DBP 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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