



Product name

ETANERCEPT Labelled standard

ENF90251

Catalog number **Product description**

Labelled Etanercept is a recombinant, stable isotope labelled human fusion protein consisting of the tumor necrosis factor receptor linked to the Fc portion of human IgG1. Labelled Etanercept is designed for use as an internal standard for quantitative analysis of Etanercept in plasma samples. Etanercept, a tumor necrosis factor-alpha (TNF-α) inhibitor, is a widely used treatment of immunological diseases including arthritis and plaque psoriasis.

Similar products: Labelled Adalimumab, Labelled Infliximab

Fc-fusion protein sequence

LPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSRCSSDQVETQACTR EQNRICTCRPGWYCALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSTDICRPHQICNVVAIPGNASMDAVCTSTS PTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTSFLLPMGPSPPAEGSTGDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHY **TQKSLSLSPGK**

Product features and protocols

Key features

Purity

>95% as determined by SDS-PAGE

2

Labelling

 $Arg^{-13}C_{6}$, $^{15}N_{4}$ | Lys $^{-13}C_{6}$, $^{15}N_{2}$

Isotopic incorporation

as determined by LC-MS/MS analysis of digested SIL-mAb

Product preparation

For product preparation we recommend the following steps:

- 1. Briefly centrifuge the tube before opening
- 2. 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)
- 3. Vortex gently to insure complete dissolution
- 4. Wait 15 minutes at room temperature before proceeding further
- 5. Vortex gently again and centrifuge briefly

Other features

	-
Expression System	Mammalian cells
Predicted MW	51.3 kDa
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	Lyophilized from buffer: 10 mM Tris-HCl pH7; 4% Mannitol; 1% Sucrose

Template018-datasheet mab-V01 ENF90251_V01

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





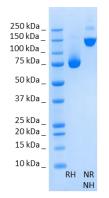
How to use our product



SIL proteins are used as internal standards by addition at the start of a sample preparation workflow. Both Labelled and target proteins will be processed throughout the entire analytical procedure controlling for variability caused by pre-analytical treatments or incomplete enzymatic digestion (1).



Supporting information



SDS-PAGE gel analysis of ETANERCEPT labelled protein in Reducing/Heated conditions (RH) and in non-reducing/ non heated conditions (NR/NH) 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

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.