

Technical Data Sheet

Recombinant Soluble Human Fas (FasΔTM)

Product Information

Material Number:	554336
Size:	10 µg
Storage Buffer:	Aqueous buffered solution containing BSA and glycerol.

Description

Fas (APO-1, CD95) is an ~42 kDa cell surface protein that mediates apoptosis when cross-linked with agonistic anti-Fas antibodies or Fas ligand (FasL). Fas belongs to the TNF (tumor necrosis factor)/NGF (nerve growth factor) receptor family, and is expressed in various tissue and cells including the thymus, liver, ovary and lung. FasL is a 40 kDa TNF family member membrane protein that induces apoptosis by binding to Fas, its cell-surface receptor. FasL is expressed on activated T and NK cells. Both Fas and FasL are thought to play an important role in the apoptotic processes that take place during T cell development.

Recombinant soluble human Fas was expressed in the Baculovirus Expression Vector System and purified from insect cell lysate using an anti-Fas antibody. This form of Fas lacks the transmembrane domain of the Fas receptor, and has been referred to as FasΔTM. It has a 63-base pair deletion starting at nucleotide sequence (700) GA TCC AGA and ending at nucleotide sequence GTT TGG G (762). The purity and the integrity of the protein were verified by SDS-PAGE, and ELISA. FasΔTM has a reduced molecular weight of ~40 kDa.

Preparation and Storage

Avoid multiple freeze-thaws of product.

Store the protein at -20°C, or for longer storage life, at -80°C.

Application Notes

Application

Western blot	Routinely Tested
ELISA Standard	Tested During Development
Functional assay	Not Recommended

Recommended Assay Procedure:

Purified FasΔTM can be used as a positive control for western blot analysis of Fas. 1 µg of protein can easily be visualized on a Commasie-stained gel as a band of ~40 kDa. For western blot analysis, 1 µg or less is sufficient depending on the detection method (less is needed for enhanced chemiluminescence than for standard alkaline phosphatase detection). Purified FasΔTM can also be used as a standard in Fas ELISA assays. The recombinant FasΔTM protein should not be used in functional assays, as it does not appear to assume a biologically active conformation.

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Licensed for Research Purposes Only. Commercial use requires license from Boyce Thompson Institute for Plant Research.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

- Cheng J, Zhou T, Liu C, et al. Protection from Fas-mediated apoptosis by a soluble form of the Fas molecule. *Science*. 1994; 263(5154):1759-1762.(Biology)
- Takahashi T, Tanaka M, Brannan CI, Jenkins NA, Copeland NG, Suda T, and Nagata S. Generalized lymphoproliferative disease in mice, caused by a point mutation in the Fas ligand. *Cell*. 1994; 76(6):969-976.(Biology)
- Tanaka M, Suda T, Takahashi T, and Nagata S. Expression of the functional soluble form of human Fas ligand in activated lymphocytes. *EMBO J*. 1995; 14(6):1129-1135.(Biology)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD

