

Product datasheet

Recombinant human DR5 protein (Fc Chimera) ab83547

[3 Images](#)

Description

| | |
|--|---|
| Product name | Recombinant human DR5 protein (Fc Chimera) |
| Biological activity | The ED ₅₀ of DR5 Fc Chimera is typically 38-40 ng/ml as measured by its ability to neutralize TRAIL mediated cytotoxicity using the human leukemic Jurkat cells. |
| Purity | > 95 % SDS-PAGE. |
| Expression system | HEK 293 cells |
| Accession | <u>O14763</u> |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | <p>Theoretical sequence:</p> <p>ITQQDLAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDC ISCKYGQDY STHWNDLLFCLRCTRCDSGEVELSPCTTTRNTVCQCEEG TFREEDSPE MCRKCR TGCP RGMVKVGDCTPWS D IECVHKEGSSNTKV D KKVEPKSCD KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV LHQDWLNGK EYCKKVS NKALPAPIEKTISKAKGQPREPQVYTLPPSRD ELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSF FLYSKLTVD KSRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK</p> |
| Amino acids | 56 to 182 |
| Additional sequence information | Encodes the signal peptide and extracellular domain of human TRAIL R2 (aa 1-182) was fused to the Fc region of human IgG1 (aa 90-330). The chimeric protein was expressed in modified human 293 cells. |

Specifications

Our **Abpromise guarantee** covers the use of **ab83547** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|---------------------|--------------------|
| Applications | Functional Studies |
| | SDS-PAGE |
| Form | Lyophilized |

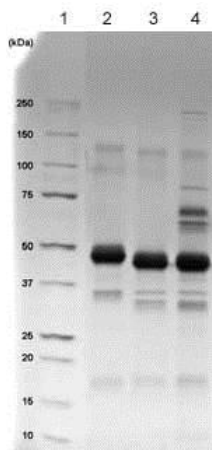
Preparation and Storage

| | |
|------------------------------|--|
| Stability and Storage | Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. |
| | Constituents: 1% Human serum albumin, 10% Trehalose |
| | This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose. |

General Info

| | |
|-------------------------------|--|
| Function | Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis. |
| Tissue specificity | Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain. |
| Involvement in disease | Squamous cell carcinoma of the head and neck |
| Sequence similarities | Contains 1 death domain. Contains 3 TNFR-Cys repeats. |
| Cellular localization | Membrane. |

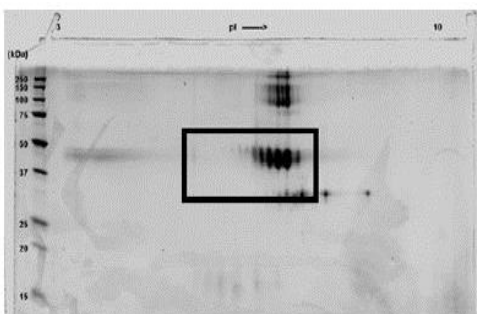
Images



SDS-PAGE - Recombinant human DR5 protein (Fc Chimera) (ab83547)

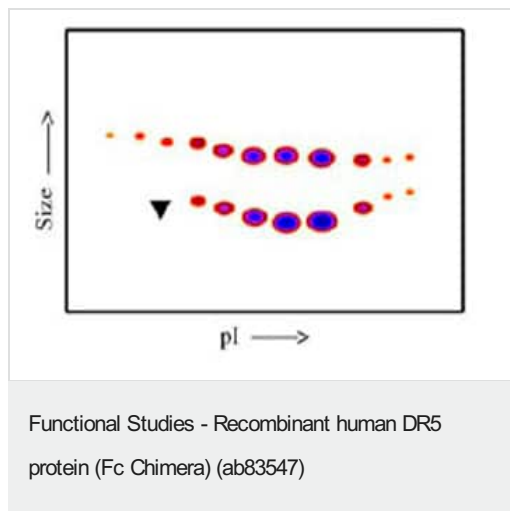
Lane 1 – MW markers; Lane 2 – ab83547; Lane 3 – ab83547 treated with PNGase F to remove potential N-linked glycans; Lane 4 – ab83547 treated with a glycosidase cocktail to remove potential N- and O-linked glycans. Approximately 5 µg of protein was loaded per lane; Gel was stained using Coomassie.

Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. A further drop in MW after treatment with the glycosidase cocktail indicates the presence of O-linked glycans. Additional bands in lane 3 and lane 4 are glycosidase enzymes.



SDS-PAGE - Recombinant human DR5 protein (Fc Chimera) (ab83547)

A sample of ab83547 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. Approximately 40 µg of protein was loaded; Gel was stained using Deep Purple™. The spot train indicates the presence of multiple isoforms of ab83547. Spots within the spot train were cut from the gel and identified as ab83547 by protein mass fingerprinting.



Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates that ab83547 exists in multiple isoforms, which differ according to their level of post-translational modification. Expression of these isoforms is highly significant for cell biology, as they more closely resemble the native human proteins.

The triangle indicates theoretical pI and MW of the protein.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors