human APO-1/Fas:Fc-IgG (soluble)

Recombinant protein

For research use only; not for therapeutic or *in vitro* diagnostic use

Cat. No.	Quantity*
BMS314	50 µg

*Bulk quantities are available on request.

Source:	Recombinant, human soluble APO-1/Fas:Fc-IgG is produced in human embryo kidney cells.
Structure:	The extracellular domain of human APO-1/Fas (aa. 1-154) is fused to the Fc portion of human IgG1.
Molecular Weight:	60 kDa under reducing conditions.
Purity:	BMS314 is >95% pure as demonstrated by SDS-PAGE.
Cross reactivity:	Recombinant, human soluble APO-1/Fas:Fc-IgG inhibits the activity of APO-1/Fas ligand of human and mouse.
Presentation:	sAPO-1/Fas is provided as lyophilized powder. Prepare a concentrated stock solution of APO-1/Fas:Fc-IgG (1 mg/ml in PBS) by dissolving the entire preparation (50 µg) in 50 µl sterile H2O. Further dilutions should be made with medium containing 5% fetal calf serum.
Background	Apo-1 (Fas/CD95) is a 45 kD type I transmembrane protein belonging to the TNF receptor family. A subgroup of this receptor family called ”death receptors” contain 3-4 cysteine-rich repeats in the extracellular portion and a cystoplasmic motif called the ”death domain”, which is responsible for the transduction of the death signal. The death domain associates with FADD/MORT, which in turn connects to aspartate-specific proteases (Caspases) that are implicated as mediators of most types of apoptotic cell death (6-9).
Application:	APO-1/Fas:Fc-IgG fusion protein inhibits soluble APO-1/FasLigand (BMS309)-mediated lysis of APO-1 sensitive cells. Method: Murine A20 B lymphoma cells (50,000 cells in 100 µl DME medium containing 5% fetal celf serum) are incubated with 0.2 µg/ml APO-1/Fas Ligand in a 96 well plate for 16 h at 37°C. In the presence of APO-1/Fas:Fc-IgG fusion protein (concentration 20 - 100 µg/ml) sAPO-1/Fas Ligand-mediated cell death is inhibited. Concentrations of APO-1/Fas:Fc-IgG required to inhibit cell death may vary depending of the cell type and on the concentration of sAPO-1/Fas Ligand used to kill cells.

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Storage and Stability:	BMS314 is stable at 2-8°C until expiry date (see vial). Once rehydrated it is recommended to prepare appropriate aliquots and to store them at –20°C. Avoid repeated freezing and thawing.
Shipping conditions:	2-8°C

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