

GITRL (hBA-126): sc-4825

BACKGROUND

GITRL (glucocorticoid-induced TNF-related ligand), a 20 kDa polypeptide encoded by a human umbilical endothelial cell cDNA, is a member of the TNF (tumor necrosis factor) superfamily. GITRL has a type 2 transmembrane topology that is characteristic of the TNF family. The TNF superfamilies regulate diverse biological functions, including cell proliferation, differentiation, and survival. GITRL is found on vascular endothelial cells and in several peripheral tissues (small intestine, ovary, testis and kidney) where it may modulate T lymphocyte survival. The receptor that recognizes GITRL is GTR and the two interact to regulate NF κ B activation. The ligand-receptor pair of GITRL-GTR protects cells against AICD (activation-induced cell death).

REFERENCES

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SOURCE

GITRL (hBA-126) is produced in *E. coli* as 14.3 kDa biologically active GST-tagged fusion protein corresponding to 126 amino acids of GITRL of human origin.

PRODUCT

GITRL (hBA-126) is purified from bacterial lysates (>98%); supplied as 50 μ g purified protein.

BIOLOGICAL ACTIVITY

GITRL (hBA-126) is biologically active as determined by its ability to stimulate IL-8 production by human PBMC using a concentration range of 1-10 ng/ml.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

STORAGE

Store desiccated at -20 $^{\circ}$ C; stable for one year from the date of shipment.

RECONSTITUTION

In order to avoid freeze/thaw damaging of the active protein, dilute protein when first used to desired working concentration. Either a sterile filtered standard buffer (such as 50mM TRIS or 1X PBS) or water can be used for the dilution. Store any thawed aliquot in refrigeration at 2 $^{\circ}$ C to 8 $^{\circ}$ C for up to four weeks, and any frozen aliquot at -20 $^{\circ}$ C to -80 $^{\circ}$ C for up to one year. It is recommended that frozen aliquots be given an amount of standard cryopreservative (such as Ethylene Glycol or Glycerol 5-20% v/v), and refrigerated samples be given an amount of carrier protein (such as heat inactivated FBS or BSA to 0.1% v/v) or non-ionic detergent (such as Triton X-100 or Tween 20 to 0.005% v/v), to aid stability during storage.

PROTOCOLS

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