

Recombinant Human TNF-related Weak Inducer of Apoptosis Receptor/TNFRSF12A

Information

Gene ID	51330
Accession #	Q9NP84
Alternate Names	TNFRSF12A, FGF-inducible 14, CD266
Source	Escherichia coli.
M.Wt	Approximately 5.6 kDa, a single non-glycosylated polypeptide chain containing 53 amino acids.
AA Sequence	EQAPGTAPCS RGSSWSADLD KCMDCASCRA RPHSDFCLGC AAAPPAPFRL LWP
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED as determined by inhibiting TWEAK-dependent proliferation of human umbilical vein endothelial cells (HUVEC) is less than 30 ng/ml, corresponding to a specific activity of > 3.3 × 10 IU/mg, in the presence of 15 ng/ml of rHuTWEAK.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5µg	100µg	500µg
Recombinant Human TNF-related Weak Inducer of Apoptosis Receptor/TNFRSF12A	5µg	100µg	500µg

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Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ μ g of rHuTWEAK Receptor as determined by LAL method.

Description

Human TNF-related weak inducer of apoptosis receptor (TWEAKR) also known as Tumor necrosis factor receptor superfamily member 12A precursor (gene name TNFRSF12A) or fibroblast growth factor-inducible 14 kD protein, is distantly related to the TNFR family, containing one cysteine-rich domain in the extracellular region and a TNFR-associated factor binding domain but does not contain a death domain (DD) cytoplasmic region. It is expressed in the spleen, thymus, peripheral blood lymphocytes, colon, and small intestine. Signal transduction by TWEAK receptor can be activated by either the membrane anchored or the soluble TWEAK. In addition, It plays a role in TWEAK-induced endothelial cell migration, proliferation, and angiogenesis. Human and mouse TWEAK R share 82 % a.a. sequence identity.

Reference

1. Gaudineau B, Fougere M, Guaddachi F, et al. 2012. J Cell Sci, 125: 4475-86
2. Abend JR, Uldrick T, Ziegelbauer JM. 2010. J Virol, 84: 12139-51
3. Kang S, Yang C, Luo R. 2008. Biochem Biophys Res Commun, 372: 629-33
4. Wiley SR and Winkles JA. 2003. Cytokine Growth Factor Rev, 14: 241-9.

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