

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

#R00091

Size: 5 µg/100 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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 (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.

AA Sequence

EQAPGTAPCSRGSWSADLDKCMDCASCRRPHSD
FCLGCAAAPPAPFRLWP

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.

Product Specification

Synonyms	TNFRSF12A, FGF-inducible 14, CD266
Accession	Q9NP84
GeneID	51330
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 5.6 kDa, a single non-glycosylated polypeptide chain containing 53 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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 ⁴ IU/mg, in the presence of 15 ng/ml of rHuTWEAK.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/μg of rHuTWEAK Receptor as determined by LAL method.