

# TWEAK Receptor, human recombinant

<b>CATALOG #:</b>	7208-10	10 µg
	7208-50	50 µg
<b>ALTERNATE NAMES:</b>	TNF-related weak inducer of apoptosis receptor, TNFRSF12A, FGF-inducible 14, TWEAKR	
<b>SOURCE:</b>	E coli	
<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	5.6 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1 EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5 and 50 mM NaCl.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

TWEAKR belongs to the TNFR superfamily of transmembrane proteins and contains a cytoplasmic "death domain," which can activate the cell's apoptotic machinery. It is expressed in the spleen, thymus, peripheral blood lymphocytes, colon, and small intestine. Signal transduction by TWEAKR can be activated by either the membrane anchored or the soluble TWEAK. Recombinant soluble TWEAKR is a 53 amino acid

polypeptide (5.6 kDa) comprising the entire extracellular domain of the full length TWEAKR protein.

**AMINO ACID SEQUENCE:**

EQAPGTAPCS RGSSWSADLD KCMDCASCRA RPHSDFCLGC AAAPPAPFRL LWP

**BIOLOGICAL ACTIVITY:**

Determined by its ability to inhibit TWEAK-induced weak cell death of HT29 cells. The expected ED<sub>50</sub> for this effect is 1.0-3.0 µg/ml.

**RELATED PRODUCTS:**

- TWEAK, human recombinant (Cat # 4360-10, -1000)
- TweakR Antibody (Cat # 3564-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**