# Recombinant Canine TWEAK (TNFSF12)

**Cat. No.** TWEAK-55C **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Canine TWEAK/TNFSF12 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified. |
| **Species** | Canine |
| **Source** | Yeast |
| **Description** | Tumor necrosis factor ligand superfamily member 12 (TNFSF12) also known as TNF-related weak inducer of apoptosis (TWEAK) is a member of the tumor necrosis factor ligand (TNF) ligand family. Nineteen cytokines have been identified as part of the TNF family on the basis of sequence, functional, and structural similarities. Family members include TNF beta (TNFSF1), TNF alpha (TNFSF2), Lymphotoxin beta (TNFSF3), OX40 Ligand (TNFSF4), CD40 Ligand (TNFSF5), Fas Ligand (TNFSF6), CD27 Ligand (TNFSF7), CD30 Ligand (TNFSF8), 4-1BB Ligand (TNFSF9), TRAIL (TNFSF10), TRANCE/RANKL (TNFSF11), TWEAK (TNFSF12), APRIL(TNFSF13), BAFF (TNFSF13B), LIGHT (TNFSF14), TL1A/VEGI (TNFSF15), and GITR Ligand (TNFSF18). TWEAK has overlapping signaling functions with TNF, but displays a much wider tissue distribution. TWEAK can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. TWEAK is also found to promote proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis. |
| **Form** | Lyophilized |

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| **Molecular Mass** | 17.2 kDa |
| **AA Sequence** | NASKGRKTRA RRAIAAHYEV HPQPGQDGGQ AGVDGTVSGW EEAKINSSNP LRYDRQSGEF IVTRAGLYYL YCQVHFDEGK AVYLKLDLLV DDALALRCLE EFSATAASSL GPQLRLCQVS GLLPLRPGSS LRIRTLPWAH LKAAPFLTYF GLFQVN (156) |
| **Applications** | The Canine TWEAK/TNFSF12 protein can be used in cell culture, as a TWEAK ELISA Standard, and as a Western Blot Control. |
| **Storage** | -20 C |

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