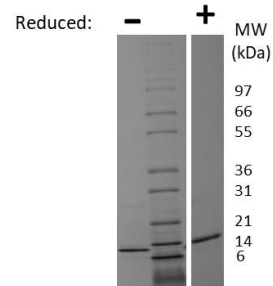
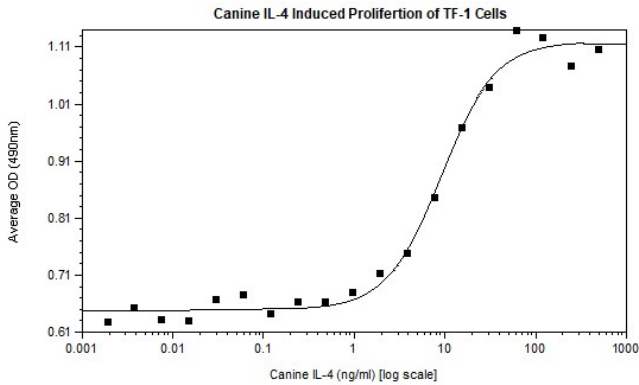


IL4

Canine IL-4, Animal Free

Catalog No.	CS803A-AF CS803B-AF CS803C-AF	Quantity:	25 µg 100 µg 1 mg
Alternate Names:	Interleukin-4, B-cell stimulatory factor-1, BSF-1, BCDF, BCGF		
Description:	Interleukin 4 (IL-4) is an immunomodulatory cytokine that functions to induce naïve helper T cells to differentiate into type 2 T helper (Th2) cells. Th2 cells subsequently produce more IL-4 in a positive feedback loop. IL-4 also promotes immunoglobulin IgG to IgE isotype switching on B cells. IL-4 binds the IL-4Rα receptor to activate STAT6 signaling.		
GeneID:	403785		
UniProt ID:	O77762		
Source:	<i>E.coli</i>		
Molecular Weight:	12.9 kDa (109 aa) monomer		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 25 ng/ml determined by TF-1 cell proliferation.		
Specific Activity:	≥ 4.0 x 10 ⁴ units/mg		
Amino Acid Sequence:	MHNFNITIKE IIKMLNILTA RNDSCMELTV KDVFTAPKNT SDKEIFCRAA TVLRQIYTHN CSNRYLRGLY RNLSSMANKT CSMNEIKKST LKDFLERLKV IMQKKYYRH		
Reconstitution:	Centrifuge the vial prior to opening. Reconstitute with sterile water at 0.1 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. Do not vortex. Further dilution should be made into a solution containing a carrier protein such as 0.1% BSA.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. Avoid repeated freeze-thaw cycles.		





Canine IL-4 Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Canine IL-4 is predicted to have a MW of 12.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com