

Bovine IL-4 Recombinant Protein

Product Details	
Size	20 µg
Species	Bovine
Expression system	P. pastoris
Amino acid sequence	aa 25-135
Molecular weight	12.6 kDa
Class	Recombinant
Type	Protein
Activity	ED50 = 0.44 - 0.67 ng/mL; determined by the dose-dependent proliferation of human TF-1 cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Storage buffer	PBS
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-

Product Specific Information

For dilution, use a buffer containing carrier protein, e.g. PBS with 1% BSA or a neutral media containing 10% FCS and freeze in aliquots at -70°C.

Activity: The biological activity of recombinant bovine IL-4 was determined by measuring the proliferation of the factor-dependent human T-helper cell line, TF-1 (Kitamura, T. et al. (1989) J. Cell Physiol. 140:323). The ED50 (or 1 unit of activity) for this effect in our laboratories typically falls into the range of 0.44 - 0.67 ng/mL.

Expression: Mature bovine IL-4 was expressed in Pichia pastoris, X-33. GenBank® Accession # P30367, amino acids 25 - 135. For protein verification, the expressed protein was N-terminal sequenced and begins with the following 10 amino acids: HKCDITLAEI.

Reconstitute with 0.5 mL of distilled water.

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