

Recombinant Bovine Interleukin-1 Receptor Antagonist Protein (IL1RN), N-His-IF2DI

Cat. No.: AP9F4

Product Type: Animal Proteins

Size: 50 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Bovine Interleukin-1 Receptor Antagonist Protein (IL1RN), N-His-IF2DI is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 37.8 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	37.8 kDa
Physical State	Lyophilized
Formulation	10 mM Hepes, 500 mM NaCl with 5% trehalose, pH 7.4.

Target Information

Interleukin 1 receptor antagonist, encoded by the *IL1RN* gene in cattle, is a protein closely related to the IL-1 family, sharing amino acid sequence similarities with both IL-1 beta and IL-1 alpha. Studies have demonstrated that leukocyte mRNA levels of the *IL1RN* gene increase 6 hours post-castration in cattle.

Protein	Bovine Interleukin-1 Receptor Antagonist Protein (IL1RN)
Protein Synonym	interleukin 1 receptor antagonist, interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IL1 inhibitor, IRAP
Gene ID	281860
UniProt ID	Q77482

Shipping and Storage

This product is shipped with dry ice. Avoid repeated freezing and thawing. Store at -20°C or -80°C.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in sterile distilled water or other buffer to a concentration of 0.1-1 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

Reference

Yoo, S. *et al.* Effect of knife castration on leukocyte cytokine expression and indicators of stress, pain, and inflammation in Korean cattle bull calves. *Animal bioscience*. 2023, 36: 521-528.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.