

Recombinant Bovine Granulocyte Chemotactic Protein 2/CXCL6

#R00466

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

GCP-2 (granulocyte chemotactic protein-2) is a CXC chemokine. Among human CXC chemokines, GCP-2 is most closely related to ENA-78. The structure and sequence of the genes for human GCP-2 and ENA-78 also exhibit close similarity, suggesting the two genes may have originated from a recent gene duplication. LIX (LPS-induced CXC chemokine) was initially cloned as a gene induced by LPS in mouse fibroblasts. The mouse protein designated GCP-2, because of its amino acid sequence similarity (60%) to human GCP-2, is identical to the LIX protein sequence.

AA Sequence

GPVAAVRELRCVCLTTTPGIHPKTVSDLQVIAAGPQ
CSKVEVIATLKNGREVCLDPEAPLIKKIVQKILDSGKN
N

Reconstitution

We recommend that this vial be briefly centrifuged prior

to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P80221
GeneID	281735
Unigene	Bt.7165.
Species	Bovine
Source	Escherichia coli.
Molecular Weight	Approximately 8.0 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 10-50 ng/ml.
Physical	Sterile Filtered White Lyophilized

Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, 500 mM NaCl, pH 7.0.
Endotoxin	Less than 0.1 EU/μg of rBoGCP-2/CXCL6 as determined by LAL method.