

## Native Human Calprotectin

Cat. No. NATE-1597

Lot. No. (See product label)

### Introduction

**Description** Calprotectin is an important calcium signalling protein involved in wound healing. A complex of both MRP14 and MRP8, calprotectin plays a role in vascular inflammation and leukocyte recruitment. This 36kDA complex is a calcium and zinc- binding protein that represents 60% of cytosolic proteins of granulocytes. Classed as a damage associated molecular pattern marker it displays antimicrobial protective properties. Extracellular release of calprotectin during cell damage/stress can be used as a marker for intestinal inflammation. There is growing evidence that faecal calprotectin correlates with mucosal disease activity which can be utilised as a monitoring response to relapse and treatments in inflammatory bowel disease. Measuring the concentration of calprotectin in faeces is an indirect measure of neutrophil infiltrate in the bowel mucosa.

**Applications** Faecal calprotectin determination has been shown to be useful in the diagnosis and management of inflammatory bowel disease.

**Synonyms** Protein S100; calgranulin; leucocyte L1 complex; migration inhibitory factor-related protein; MRP8/14; S100 calcium-binding protein

### Product Information

**Species** Human

**Source** Human Leukocytes

**Molecular Weight** Heterotetramer containing two 8 kDa and two 14 kDa subunits

**Purity** >90% by SDS-polyacrylamide electrophoresis, Purified using conventional chromatography procedures