

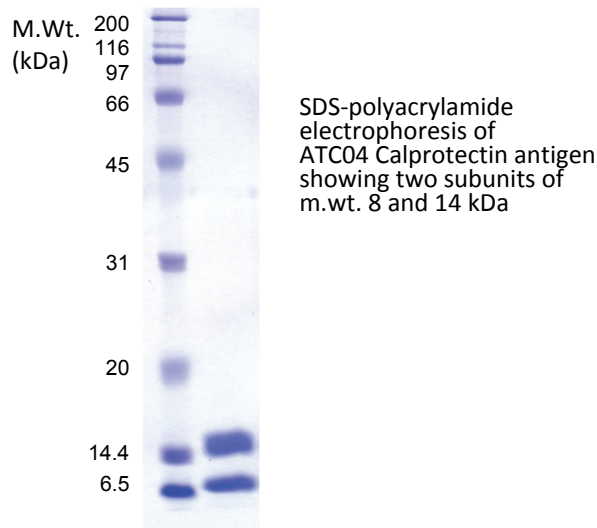
Product datasheet:

Calprotectin

Overview

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| Product name: | Calprotectin |
| Alternative names: | Protein S100, calgranulin, leucocyte L1 complex, migration inhibitory factor-related protein, MRP8/14, S100 calcium-binding protein |
| Uniprot: | Accession numbers P05109, P06702 |
| Description: | Heterotetramer containing two 8 kDa and two 14 kDa subunits |
| Source material: | Human neutrophils |
| Purity: | >90% by SDS-polyacrylamide electrophoresis |
| Purification: | purified using conventional chromatography procedures |
| Clinical applications: | Faecal calprotectin determination has been shown to be useful in the diagnosis and management of inflammatory bowel disease |

Images



References

- Kerkhoff C, Klempt M, Sorg C. Novel insights into structure and function of MRP8 (S100A8) and MRP14 (S100A9). *Biochim. Biophys. Acta* 1998, **1448**:200-211
- Gebhardt C, Németh J, Angel P, Hess J. S100A8 and S100A9 in inflammation and cancer. *Biochem. Pharmacol.* 2006, **72**:1622-1631
- Korndörfer IP, Brueckner F, Skerra A. The crystal structure of the human (S100A8/S100A9)₂ heterotetramer, calprotectin, illustrates how conformational changes of interacting alpha-helices can determine specific association of two EF-hand proteins. *J. Mol. Biol.* 2007, **370**:887-898
- Sherwood RA. Faecal markers of gastrointestinal inflammation. *J. Clin. Pathol.* 2012, **64**:981-985
- Smith LA, Gaya DR. Utility of calprotectin analysis in adult inflammatory bowel disease. *World J. Gastroenterol.* 2012, **18**:6782-6789
- Burri, E and Beglinger C. Faecal calprotectin - a useful tool in the management of inflammatory bowel disease. *Swiss Med. Wkly.* 2012, **142**:w13557
- Lewis JD. The utility of biomarkers in the diagnosis and therapy of inflammatory bowel disease. *Gastroenterology* 2011, **140**:1817-1826

Ordering information

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| ATC04-02 | Calprotectin (from human neutrophils) | 0.20 mg |
| ATC04-10 | Calprotectin (from human neutrophils) | 1.0 mg |