

## Recombinant Human S100A8&S100A9 Heterodimer Protein (His Tag)

Catalog Number: PKSH033381

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

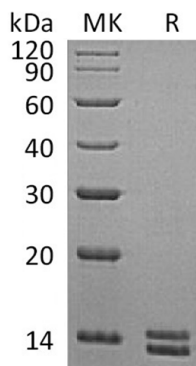
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human S100A8&S100A9 Heterodimer protein Met 1-Glu93(S100A8)& Thr 2-Pro114(S100A9), with an C-terminal His
<b>Calculated MW</b>	11.7&13.2 kDa
<b>Observed MW</b>	13&15 kDa
<b>Accession</b>	P05109&P06702
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM HEPES, 10% Glycerol, 150mM NaCl, 2.5mM EDTA, pH 7.4.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

S100A8 is a member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is produced by neutrophils and monocytes, and forms Ca<sup>2+</sup>-dependent heterodimer/heterotetramer complexes (termed calprotectin) with S100A9. Calprotectin (S100A8/A9) which has a wide plethora of intra- and extracellular functions. The intracellular functions include: facilitating leukocyte arachidonic acid trafficking and metabolism, modulation of the tubulin-dependent cytoskeleton during migration of phagocytes and activation of the neutrophilic NADPH-oxidase.