

## Recombinant Human S100A8&A9

Catalog No: C796

<b>Description</b>	Recombinant Human S100 Calcium Binding Protein S100A8/S100A9 Heterodimer is produced by our E.coli expression system and the target gene encoding Met1-Glu93(S100A8)&Thr2-Pro114(S100A9) is expressed with a 6His tag at the C-terminus.
<b>Source</b>	E.coli
<b>Alternative name</b>	S100A8/S100A9 Heterodimer
<b>Accession No.</b>	P05109&P06702
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM HEPES, 10% Glycerol, 150mM NaCl, 2.5mM EDTA, pH 7.4.  Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/ml.  Dissolve the lyophilized protein in distilled water.  Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
<b>Amino Acid Sequence</b>	MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLLKLLLETECPQYIRKKGADVWFKELDINTDGAVNFEFLIL VIKMGVAAHKKS HEESHKEHHHHH&TCKMSQLERNIETINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVI EHIMEDLDTNA DKQLSFEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP
<b>Background</b>	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.

### SDS-Page

