

Recombinant Human S100A8/A9 Heterodimer

Catalog#:P01301 Derived from *E.coli*

DESCRIPTION	<p>Recombinant Human S100 Calcium Binding Protein S100A8/S100A9 Heterodimer is produced by our <i>E.coli</i> expression system and the target gene encoding Met1-Glu93(S100A8)&Thr2-Pro114(S100A9) is expressed with a 6His tag at the C-terminus.</p> <p>Accession#: P05109&P06702</p> <p>Known as: S100A8/S100A9 Heterodimer</p>
FORMULATION	Supplied as a 0.2 μ m filtered solution of 20mM HEPES, 10% Glycerol, 150mM NaCl, 2.5mM EDTA, pH 7.4.
SHIPPING	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Store at $\leq -70^{\circ}\text{C}$, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
QUALITY CONTROL	<p>Mol Mass: 11.7&13.2kDa AP Mol Mass: 13&15kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1ng/μg (1 EU/μg) as determined by LAL test.</p>
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 ²⁺ -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.

