

Recombinant Human S100A8&S100A9 Heterodimer Protein (His Tag)

Catalog Number:PKSH033381

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

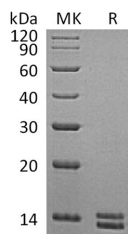
Description

Synonyms	S100A8/S100A9 Heterodimer
Species	Human
Expression Host	E.coli
Sequence	Met 1-Glu93(S100A8)&Thr 2-Pro114(S100A9)
Accession	P05109&P06702
Calculated Molecular Weight	11.7&13.2 kDa
Observed molecular weight	13&15 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM HEPES, 10% Glycerol, 150mM NaCl, 2.5mM EDTA, pH 7.4.
Reconstitution	Not Applicable

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 Ca²⁺-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.

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