Recombinant Human S100A14

#R00571

Size: 10 μg/100 μg/500 μg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

-1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

The S100A14 protein, a member of the S100 protein family characterized by its EF-hand motif and calcium-binding ability, is encoded by this gene located in a cluster of S100 genes on chromosome. S100A14 is a homodimer that can interact with AGER. S100A14 can regulate the levels of P53/TP53 proteins and modulate cell survival and apoptosis at different concentrations through the receptor for advanced glycation end products (RAGE). S100A14 also plays a role in regulating cell migration by modulating the levels of MMP2, a matrix metalloproteinase that is transcriptionally controlled by P53/TP53. Modulates P53/TP53 protein levels, and thereby plays a role in the regulation of cell survival and apoptosis. Depending on the context, it can promote cell proliferation or apoptosis. Plays a role in the regulation of cell migration by modulating the levels of MMP2, a matrix protease that is under transcriptional control of P53/TP53.

AA Sequence

MGQCRSANAEDAQEFSDVERAIETLIKNFHQYSVEG
GKETLTPSELRDLVTQQLPHLMPSNCGLEEKIANLGS
CNDSKLEFRSFWELIGEAAKSVKLERPVRGH

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	Q9HCY8
GeneID	57402
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 11.66 KDa, a single non-glycosylated polypeptide chain containing 104 amino acids.
Purity	≥90% by SDS-PAGE analysis.
Biological Activity	Test in Process.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20mM Tris,1mM TCEP, pH8.2.
Endotoxin	Less than 1 EU/μg of rHuS100A14 as determined by

	LAL method.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.