

## 32-8878: Recombinant Human S100A7

**Gene :** S100A7

**Gene ID :** 6278

**Uniprot ID :** P31151

### Description

Source: E. coli.

MW :11.5kD.

Recombinant Human S100A7 is produced by our E.coli expression system and the target gene encoding Met1-Gln101 is expressed. S100A7 is a 11-12 kDa member of the S100 family of EF hand calcium binding proteins. Human S100A7 shares 32% amino acid sequence identity with mouse S100A7A, the closest related protein in mouse. It is acetylated at the N-terminus and binds both calcium and zinc ions. S100A7 is up-regulated in keratinocytes of psoriasis and atopic dermatitis lesions, as well as in epithelial cells of the tongue, eye, and female genital tract. Its up-regulation can be induced by bacterial exposure, inflammatory cytokines, or epidermal barrier disruption. S100A7 supports epithelial integrity through killing E. coli by sequestration of zinc and through inducing the up-regulation of tight junction proteins. The interaction of S100A7 with RAGE promotes the migration of immune cells and the infiltration of macrophages into tumor sites.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** MSNTQAERSIIGMIDMFHKYTRRDDKIEKPSLLTMMKENFPNFLSACDKKGTNYLADVFEKKDKNEDKKIDFSEFLSLLGDIATDYHKQSHGAAPCSGGSQ

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.