

S100A15 Protein, Mouse, Recombinant (His & MBP)

General Information

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| Synonyms: | S100a17l1;Gm1020;S100a15a;AY465109;S100A7f;S100A7L1;S100 calcium binding protein A7A;S100a15 |
| Protein Construction: | A DNA sequence encoding the mouse S100A7A (Q6S5I3) (Met 1-Tyr 108) was fused with the N-terminal polyhistidine-tagged MBP tag at the N-terminus. Predicted N terminal: Met |
| Species: | Mouse |
| Expression Host: | E. coli |
| Accession: | Q6S5I3 |
| Molecular Weight: | 56.5 kDa (predicted); 50 kDa (reducing conditions) |

QC Testing

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| Biological Activity: | Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90 % as determined by SDS-PAGE |
| Endotoxin: | Please contact us for more information. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Koebnerisin is also known as protein S100-A7A (S100A7A), S100 calcium-binding protein A7-like 1 (S100A7L1) or S100 calcium-binding protein A15 (S100A15). Human S100A7A / S100A15 is a novel member of the S100 family of EF-hand calcium-binding proteins and was recently identified in psoriasis, where it is significantly upregulated in lesional skin. S100A7 is expressed by both normal cultured and malignant keratinocytes and malignant breast

epithelial cells within ductal carcinoma in situ, suggesting an association with abnormal pathways of differentiation. S100A7 plays a role in the pathogenesis of inflammatory skin disease, as a chemotactic factor for hematopoietic cells. It also plays a role in early stages of breast tumor progression in association with the development of the invasive phenotype. The association of the 11.2 kDa S100A7A / S100A15 with psoriasis suggests that it contributes to the pathogenesis of the disease and could provide a molecular target for therapy.

Reference

- Wolf R, et al. (2009) Highly homologous hS100A15 and hS100A7 proteins are distinctly expressed in normal breast tissue and breast cancer. *Cancer Lett.* 277 (1): 101-7.
- Buchau AS, et al. (2007) S100A15, an antimicrobial protein of the skin: regulation by E. coli through Toll-like receptor 4. *J Invest Dermatol.* 127 (11): 2596-604.
- Boeshans KM, et al. (2006) Purification, crystallization and preliminary X-ray diffraction of human S100A15. *Acta Crystallogr Sect F Struct Biol Cryst Commun.* 62 (5): 467-70.

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