

S100B Protein, Canine, Recombinant (hFc)

General Information

Synonyms:	S100 calcium-binding;S100-B;100β;100beta;NEF;Protein S100;S100
Protein Construction:	Ser2-Glu92
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	E2QTP3
Molecular Weight:	36.52 kDa (predicted). Due to glycosylation, the protein migrates to 40-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

S100B, a calcium-binding protein of the EF-hand type exerts both intracellular and extracellular functions. The intracellular, and extracellular, roles of S100B are attractive therapeutic targets for the treatment of both cardiac and vascular disease.

Reference

Tsoporis JN, et al. S100B: a multifunctional role in cardiovascular pathophysiology. *Amino Acids*. 2011 Oct;41(4): 843-7. doi: 10.1007/s00726-010-0527-Epub 2010 Mar 4. PMID: 20204434.

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