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Product Datasheet

Rat S100 beta protein, His tag, Unconjugated GTX00346-PRO

Article Name	Rat S100 beta protein, His tag, Unconjugated
Biozol Catalog Number	GTX00346-PRO
Supplier Catalog Number	GTX00346-pro
Alternative Catalog Number	GTX00346-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	25742
UniProt	P04631
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	Full length protein, N-terminal His-Tag, MSELEKAEF+Met1~Glu92 (NP_037323.1)

Application Notes

Protein S100B is a member of the S100 family. S100 proteins are EF-hand calcium-binding proteins and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. Experimental results suggest that the receptor for advanced glycation end products (RAGE) plays important roles in mediating S100 protein-induced cellular signaling. Besides, rat RAGE shares similarities with human RAGE in amino acids sequence with the identity of 80.0% . Thus a binding ELISA assay was conducted to detect the interaction of recombinant rat S100B and recombinant human RAGE. Briefly, S100B were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to RAGE-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-S100B mAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of of S100B and RAGE was in a dose dependent manner.