

## Hepatitis B virus surface antigen, Pre-S2 peptides (Recombinant)

**Product #\* : Pre-S1 peptide : BCL-AGS2-01(no Tag), BCL-AGS2-21(Tagged)**

The surface antigen of Hepatitis B virus (HBV) is composed of Pre-S1, Pre-S2, and S domains. The longest surface antigen, which has all the three domains, is called L protein, the middle sized antigen which has Pre-S2 and S domains, is called M protein, and the smallest one consisted of S domain is called S protein. S protein is generally also called HBsAg. Pre-S1 domain is known to be the target molecule of HBV receptors expressed on human hepatic cell surface. On the other hand, Pre-S2 domain is reportedly related to HBV invasion into cells and carcinogenesis. Thus, Pre-S1 and Pre-S2 domains are becoming more and more important in HBV research field.

The products are recombinant peptides having Pre-S2 domain. Two types of peptides are available; one has no tag peptide, and the other is fusion peptide with a tag-peptide. Choose either one suitable for your research purpose.

Production cell : E.coli  
 Product form : White lyophilized powder  
 content : 100 µg  
 Subtype : adr  
 Dissolution : Pour 100µL of DW to make 1000 µg/mL of protein in 1% sucrose containing PBS (137mM NaCl, 8.1mM Na<sub>2</sub>HPO<sub>4</sub> · 12H<sub>2</sub>O, 2.68mM KCl, 1.47mM KH<sub>2</sub>PO<sub>4</sub>, pH7.3).  
 purity : Over 95% (see below SDS-PAGE)  
 Preservation : -20°C  
 Application : ELISA, WESTERN and others

Amino acid sequence :

BCL-AGS2-01(no tag):

AMADIGSMQWNSTTFHQALLDPRVRGLYFPAGGSSSGTVNVPVPTTASPISGDPAPN (56aa)

BCL-AGS2-21(tagged):

MSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIAD EYQGKLTVAKLNIDQNPGTAPKYGIRGIP TLLL  
 FKNGEVAATKVGALSKGQLKEFLDANLAGSGSGHMHMHHHSSGLVPRGSGMKETAAAKFERQHMDSPDLGTDDDDKAMAD  
 IGSMQWNSTTFHQALLDPRVRGLYFPAGGSSSGTVNVPVPTTASPISGDPAPN (214aa, underline Thioredoxin-His Tag)

Note: Pre-S2 peptides lack some amino acids (from 44 to 49), but it is well recognized by general anti-Pre-S2 antibodies.

SDS-PAGE :

