

Supplement

1. Sequence of mature human HLA class I histocompatibility antigen, HLA A*0201 α -chain, 277aa

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MGSHSMRYFF TSVSRPGRGE PRFIAVGYVD DTQFVRFSDS AASQRMEPRA PWIEQEGPEY
WDGETRKKVKA HSQTHRVDLG TLRGYYNQSE AGSHTVQRMV GCDVGSDFWR LRGYHQYAYD
GKDYLALKED LRSWTAADMA AQTTHKHEWA AHVAEQLRAY LEGTCVEWLR RYLENGKETL
QRTDAPKTHM THHAVSDHEA TLRCWALSFY PAEITLTWQR DGEDQTQDTE LVETRPAGDG
TFQKWAADV VV PSGQEQRVTC HVQHEGLPKP LTLRWEP
    
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2. Sequence of mature human β 2-microglobulin, 100aa

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MIQRTPKIQV YSRHPAENK SNFLNCYVSG FHPSDIEVDL LKNGERIEKV EHSDFLFSKD
WSFYLLLYTE FTPTEKDEYA CRVNHVTLT SQ PKIVKWDRDM
    
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3. Binder sequence, example: ILA, 9aa

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ILAKFLHWL
    
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4. OriginLab script for fitting of thermal denaturation curves

The following shows the essential part of the Originlab (V7.5 and higher) fitting-definition-function (.fdf) file for a non-linear curve fit of measured $[\Theta]_{MRW}$ (in deg cm² dmol⁻¹) values as a function of temperature in degree Celsius according to Eqs. (4) to (10).

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[FITTING PARAMETERS]
Naming Method=User-Defined
Names=c, aN, bN, aU, bU, dHv, Tm
Meanings=molar_prot_concentration, slope_native, intercept_native, slope_un
folded, intercept_unfolded, delta_H_vant_Hoff_J_mol, melting_temperature_Ce
lsius
...
...
[FORMULA]
double m, t, k, d, f;
m=Tm+273.15;
t=x+273.15;
R=8.3145;
k=exp(dHv/(R*t)*(t/m-1.0)-ln(0.75*c*c));
d=1.0/(3.0*k*c*c);
f=(-0.5*d+(0.25*d^2+d^3/27.0)^0.5)^(1.0/3.0)-
(0.5*d+(0.25*d^2+d^3/27.0)^0.5)^(1.0/3.0)+1.0;
y=(aN+bN*x-aU-bU*x)*f+aU+bU*x;
    
```