

FIGURES

Fig. 1a:

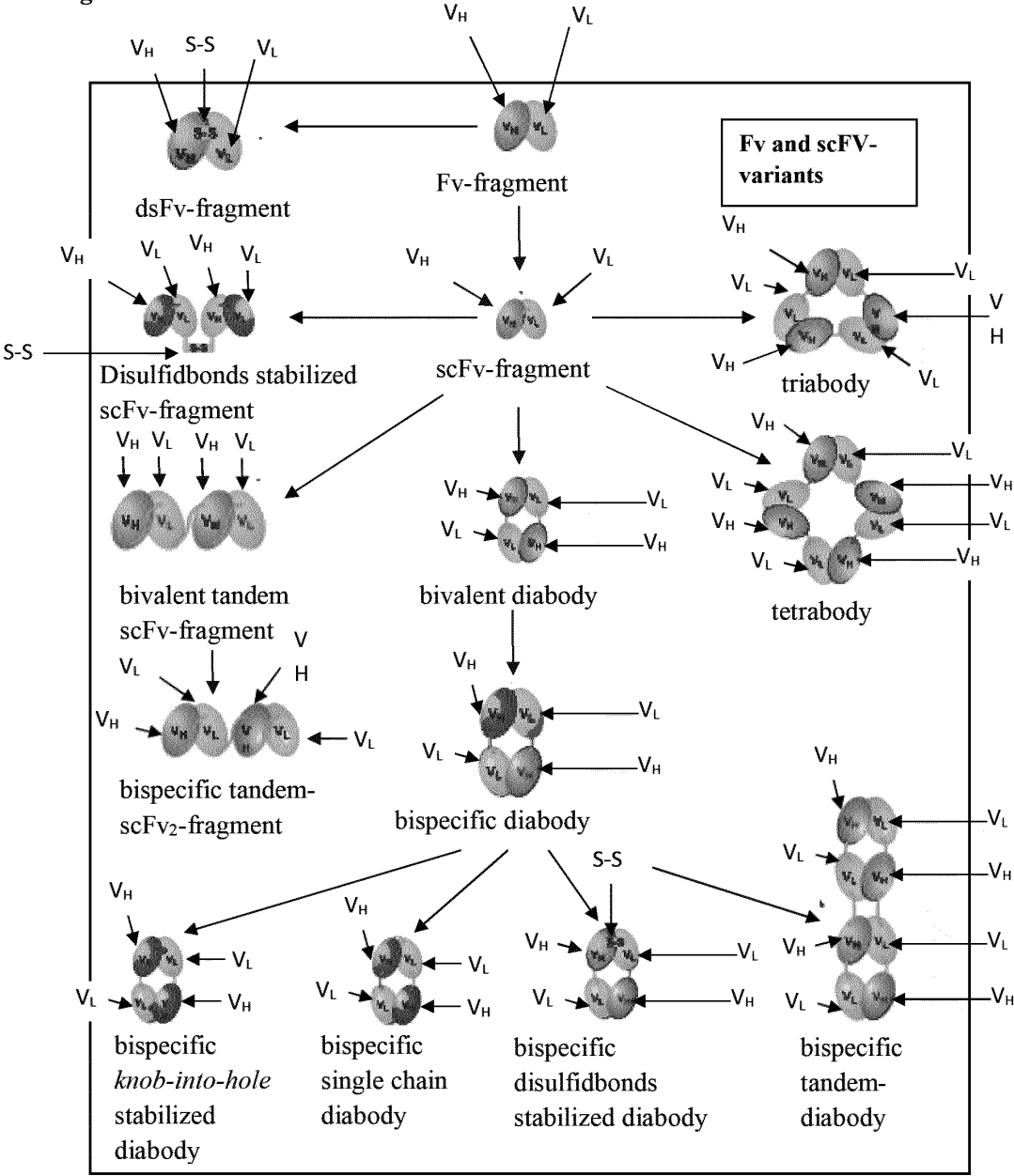


Fig. 1b:

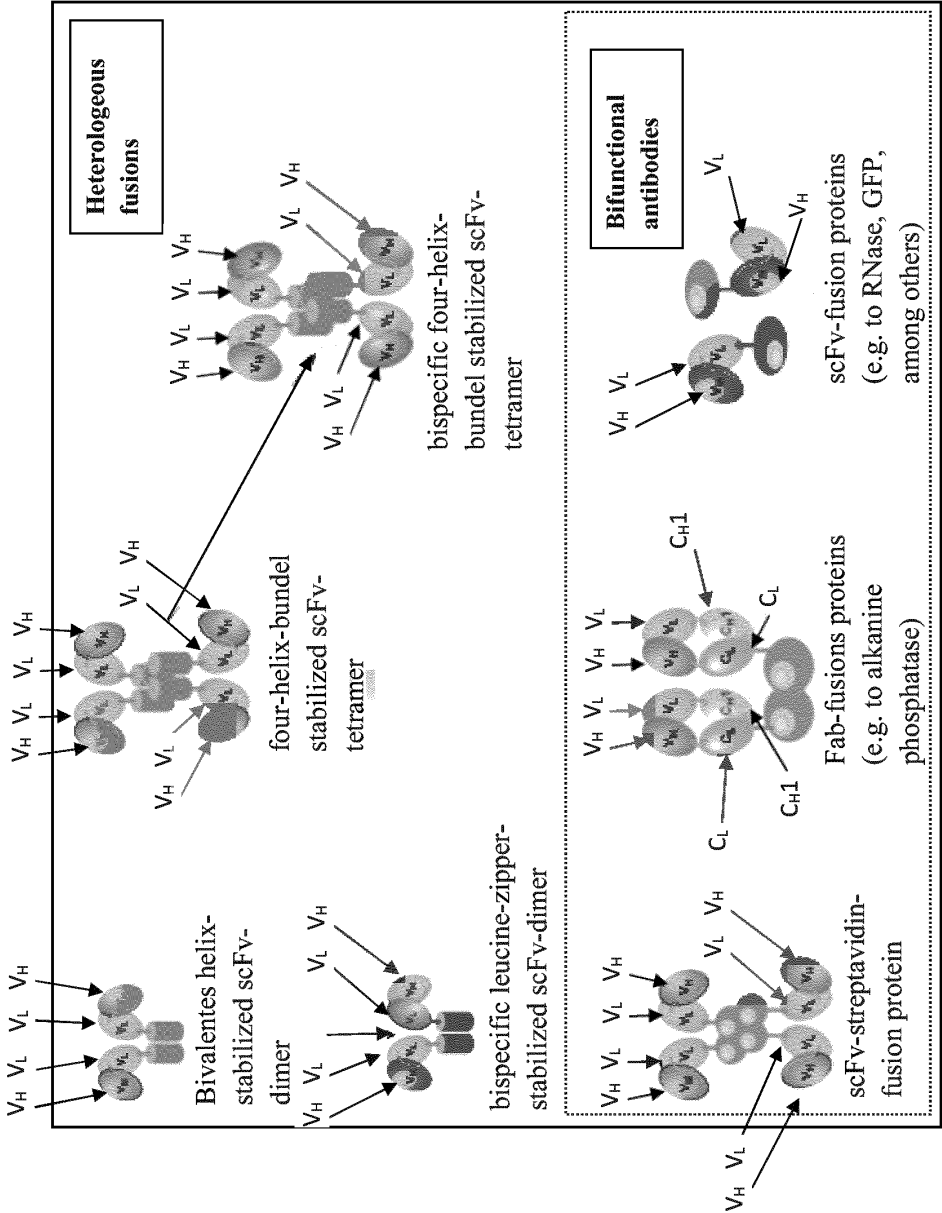


Fig. 1c:

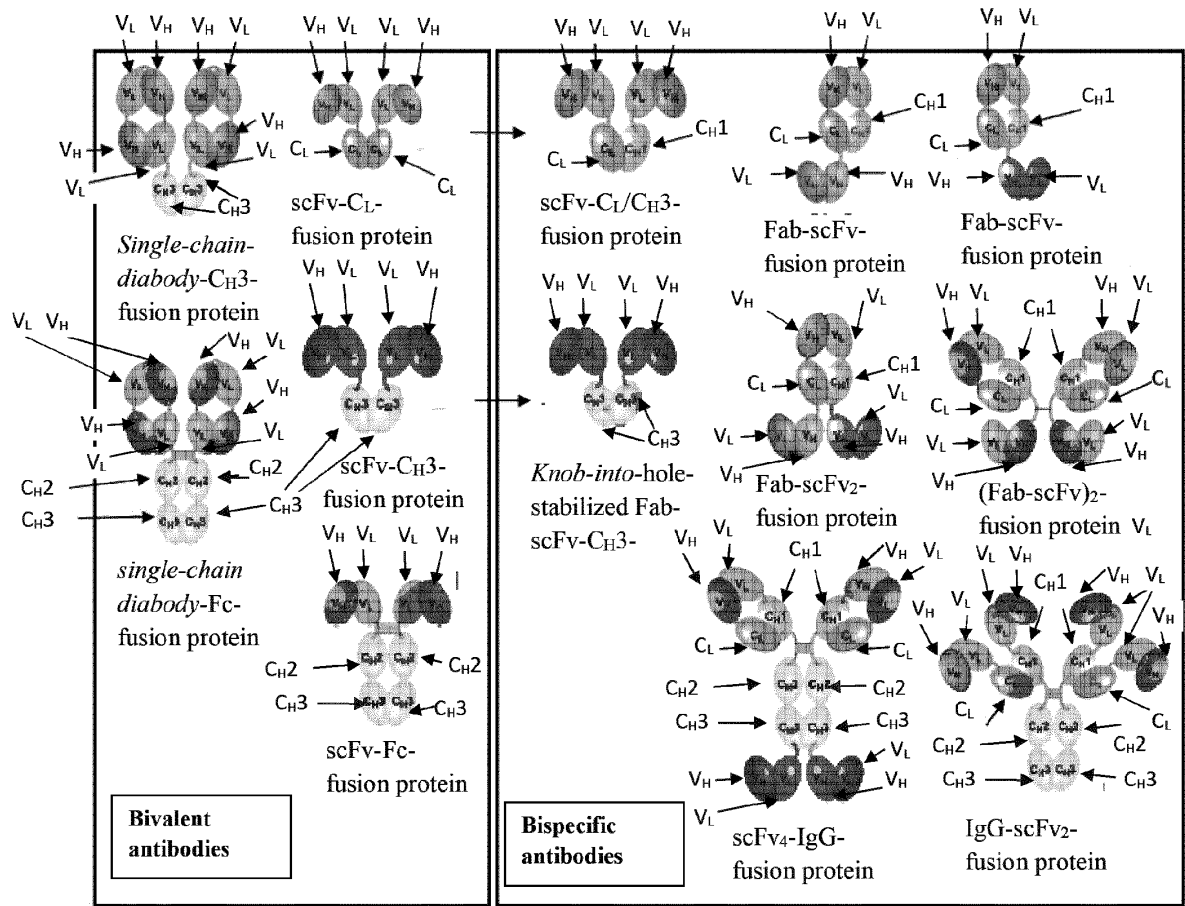


Fig. 2 a:

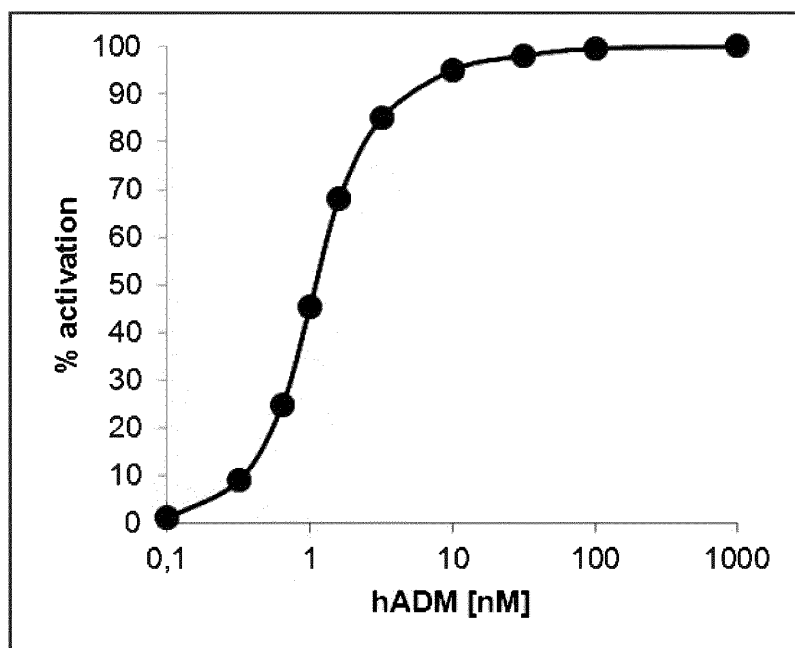


Fig. 2 b:

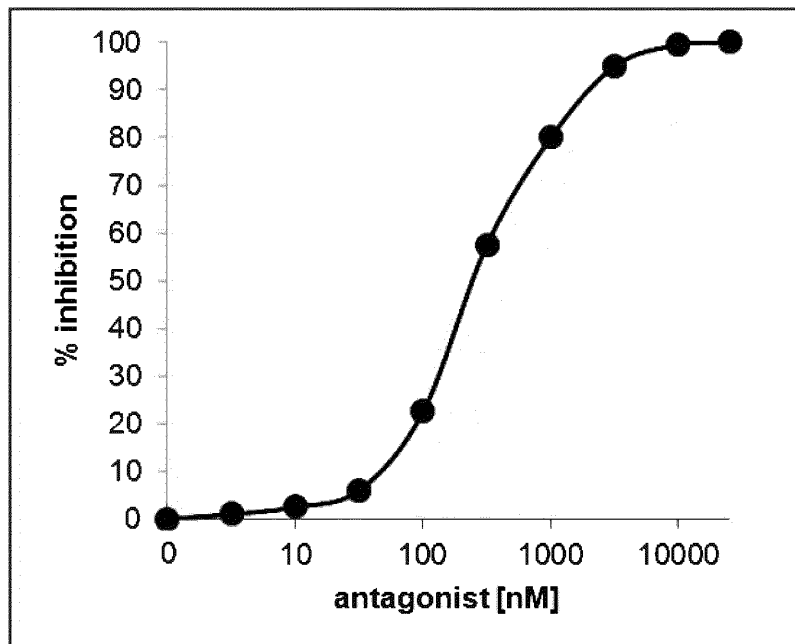


Fig. 2 c:

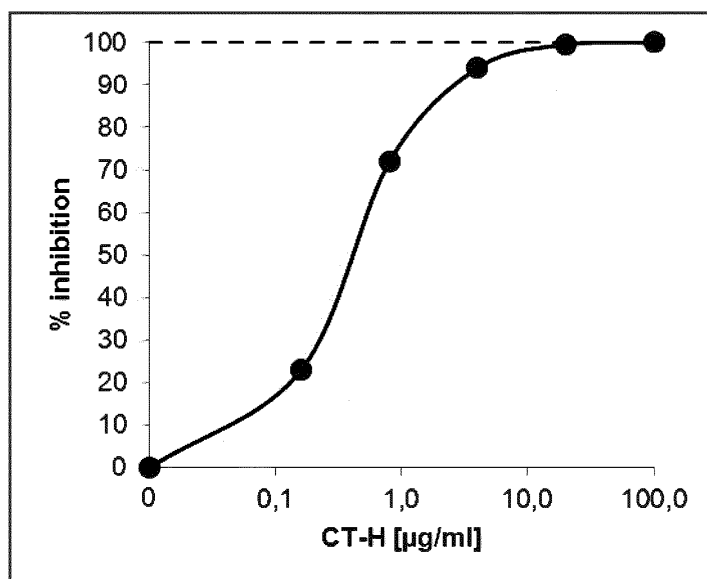


Fig. 2 d:

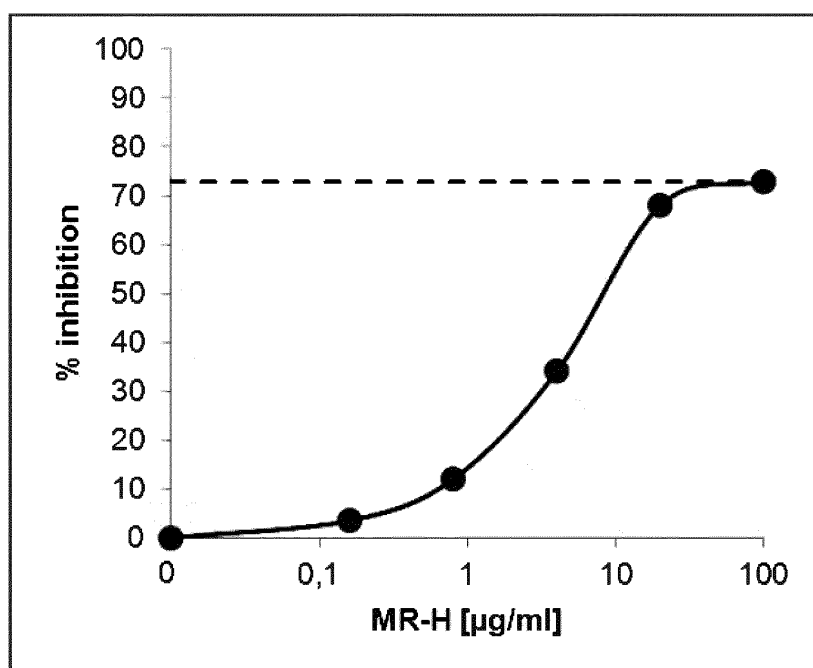


Fig. 2 e:

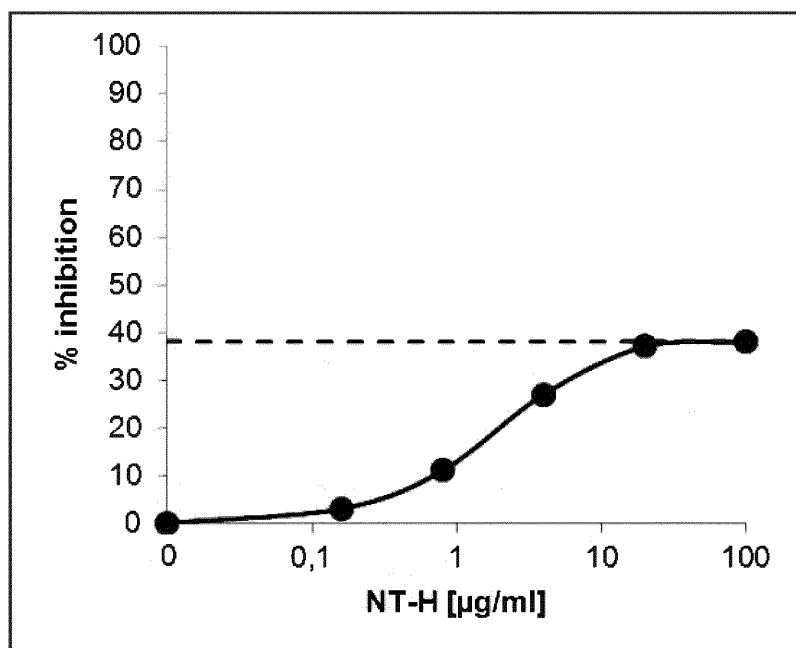


Fig. 2 f:

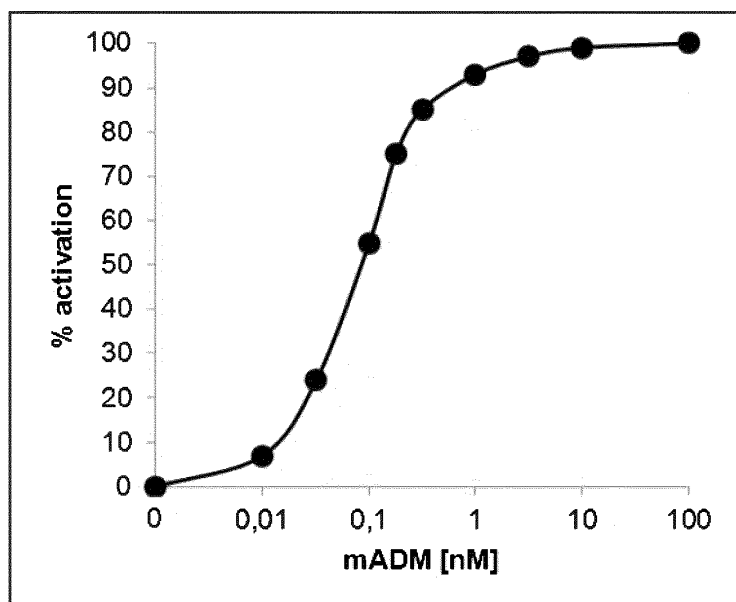


Fig. 2 g:

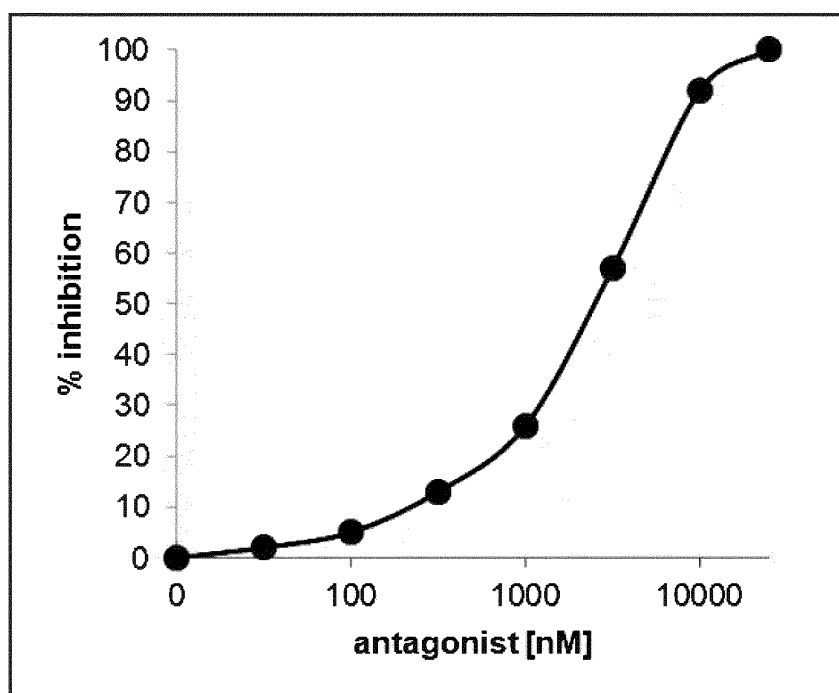


Fig. 2 h:

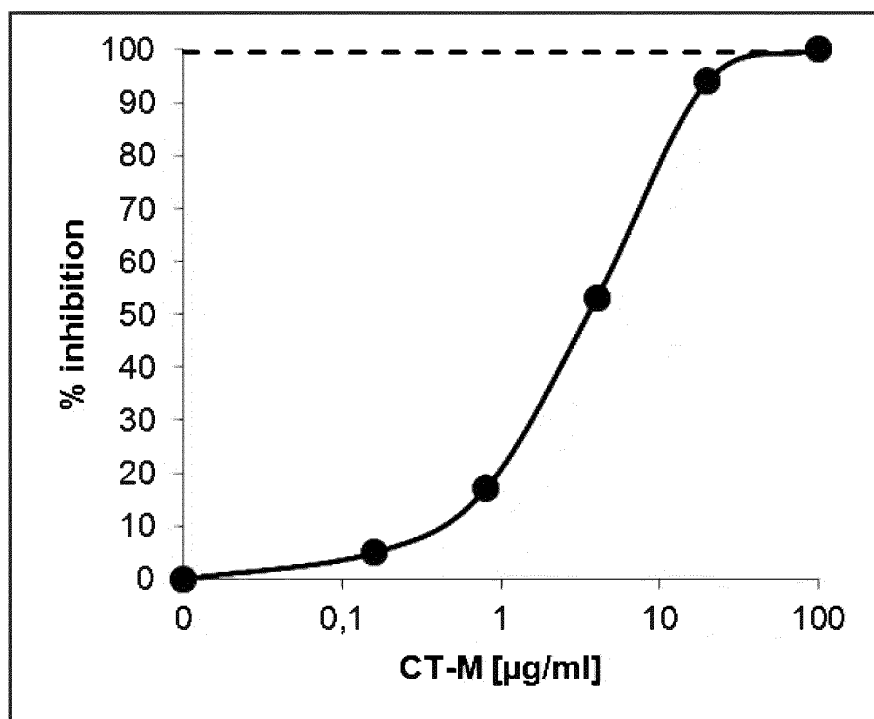


Fig. 2 i:

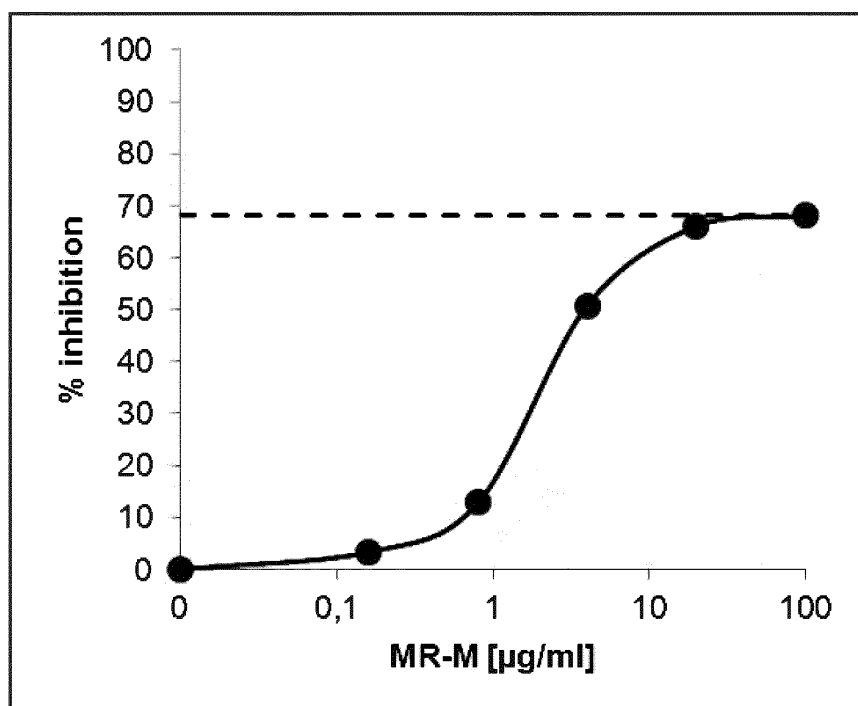


Fig. 2 j:

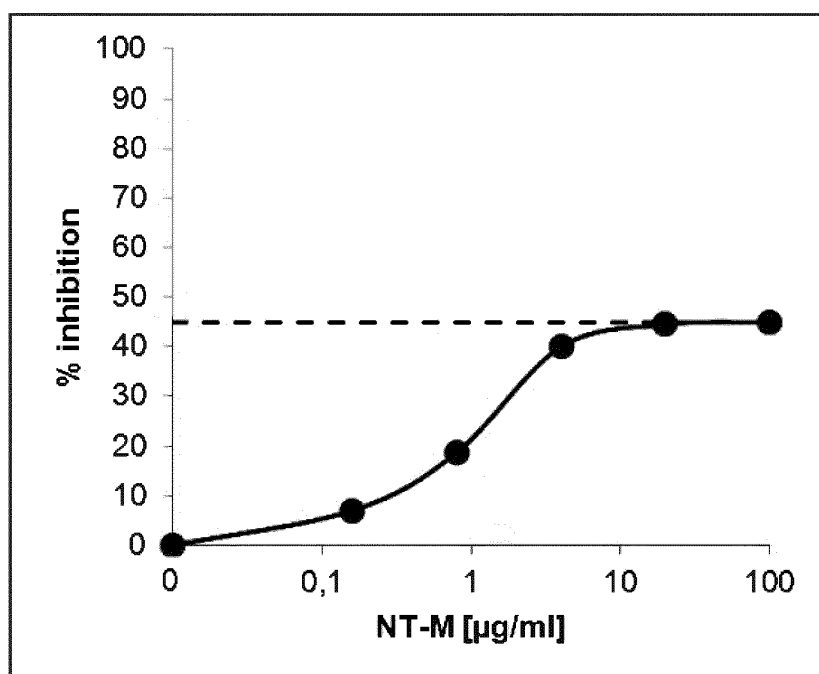


Fig. 2 k:

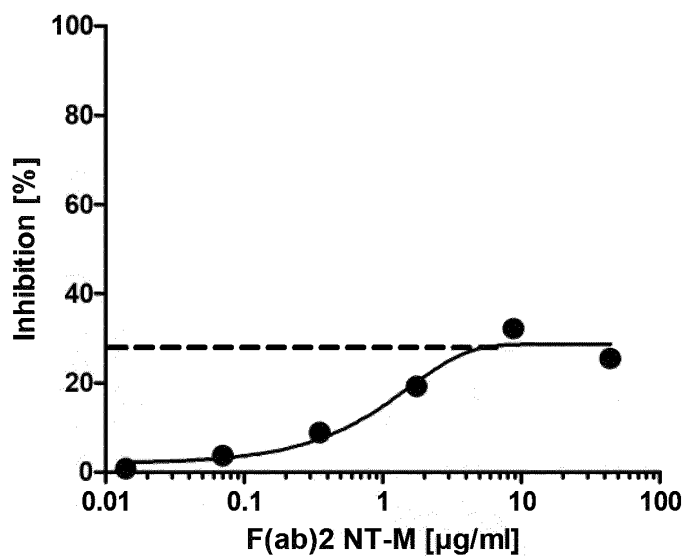


Fig. 2 l:

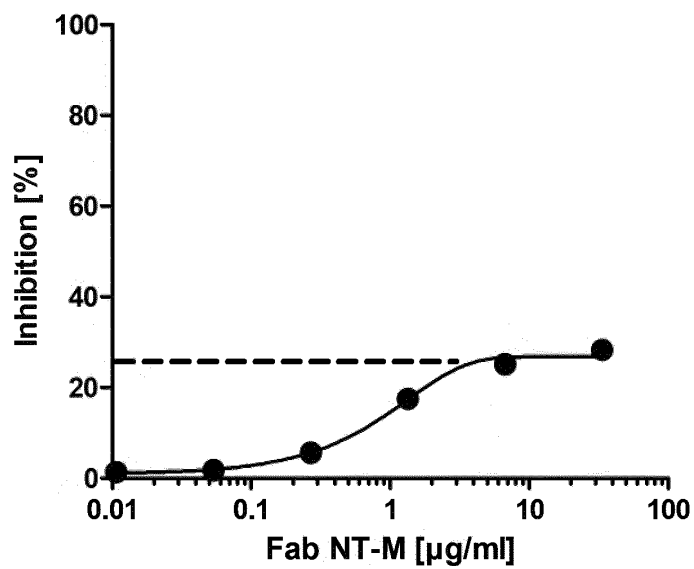


Fig. 3:

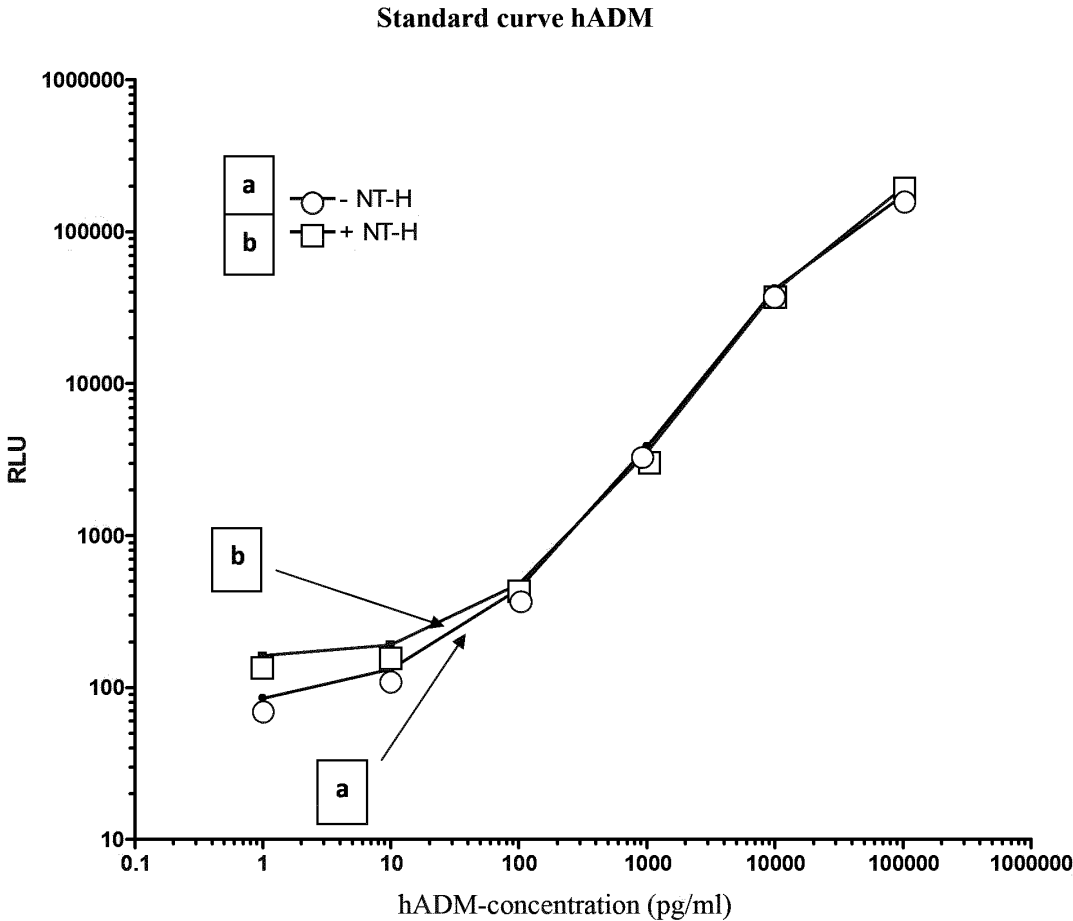


Fig. 4:

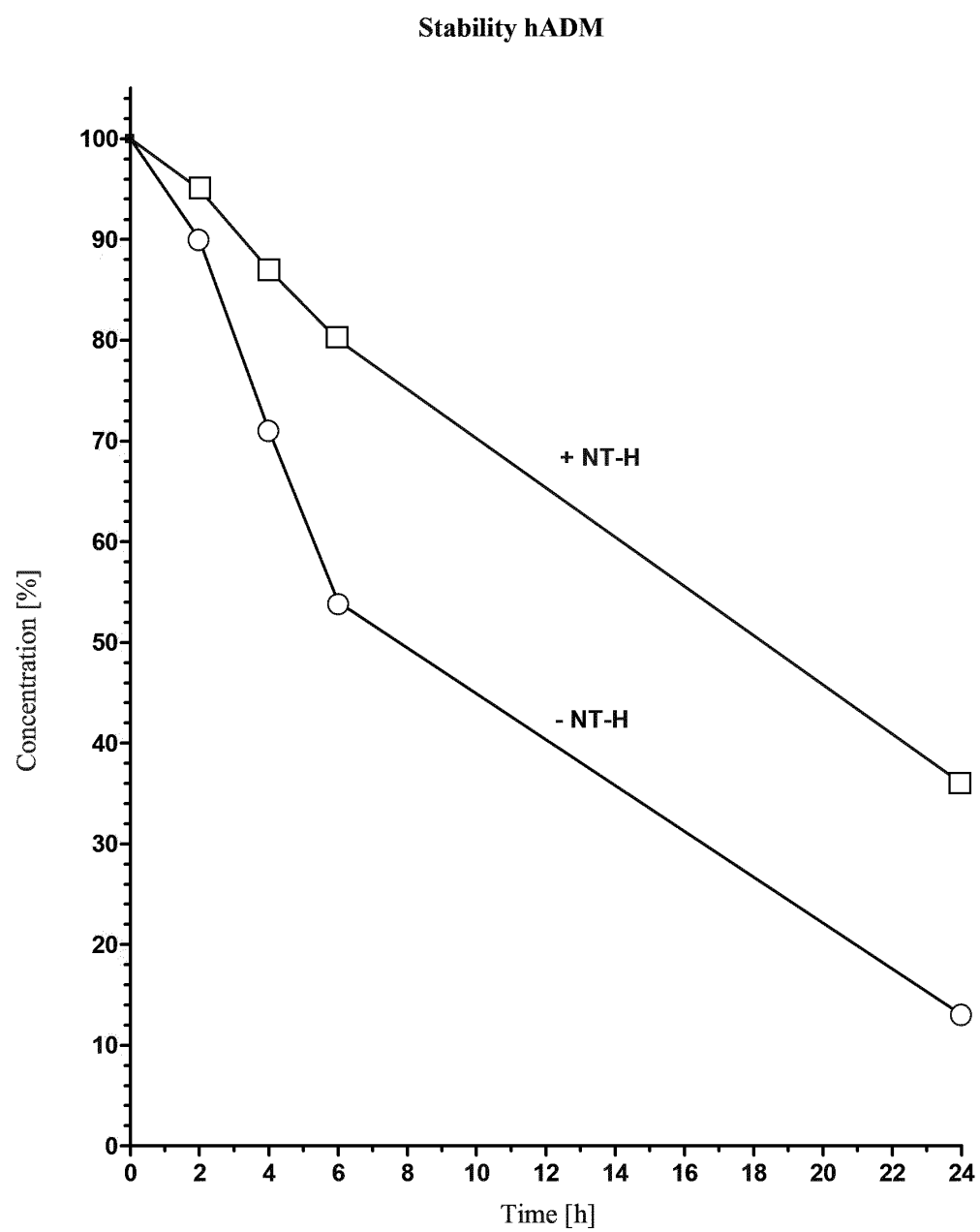


**Fig 5:****IGHV1-69\*11 (SEQ ID No.:36):**

QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGRIIPILGT  
 ANYAQKFQGRVTITADESTSTAYMELSSLRSEDТАVYYCARYYYYYGMDVWGQGT  
 TVTVSS

**HB3:**

QVQLQQSGAELMKPGASVKISCKATGYTFSRYWIEWVKQRPBGHGLEWIGEILPGSGS  
 TNYNEKFKGKATITADTSSNTAYMQLSSLTSEDSAVYYCTEGYEYDGFДYWGGTT  
 LTVSS

**Alignment (ClustalW2):** Identical amino acids are illustrated by stars; points indicate conservative changes.

IGHV1:

QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGRIIPILGTANYAQKFQGR  
 VTITADESTSTAYMELSSLRSEDТАVYYCARYYYYYGMDVWGQGT TVTVSS

HB3:

QVQLQQSGAELMKPGASVKISCKATGYTFSRYWIEWVKQRPBGHGLEWIGEILPGSGSTNYNEKFKGK  
 ATITADTSSNTAYMQLSSLTSEDSAVYYCTEGYEYDGFДYWGGTT LTVSS  
 \*\*\*\*\*:\*\*\*:\*\*\*:\*\*\*:\* \*\*\* \* \*.\*\*:\* \*\*:\*\*\*:\*.\*: \*::\*\* :\*\*\*:  
 .\*\*\*\*\* \*: .\*\*\*\*\*:\*\*\*:\*\*\*\*\*: . \* \* \*: \* \*\*\*\*\*:\*\*\*\*\*

Fig. 6

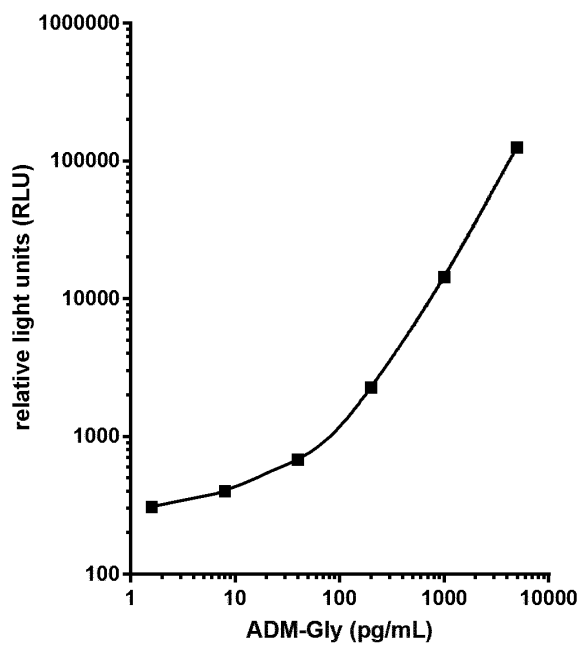


Fig. 7

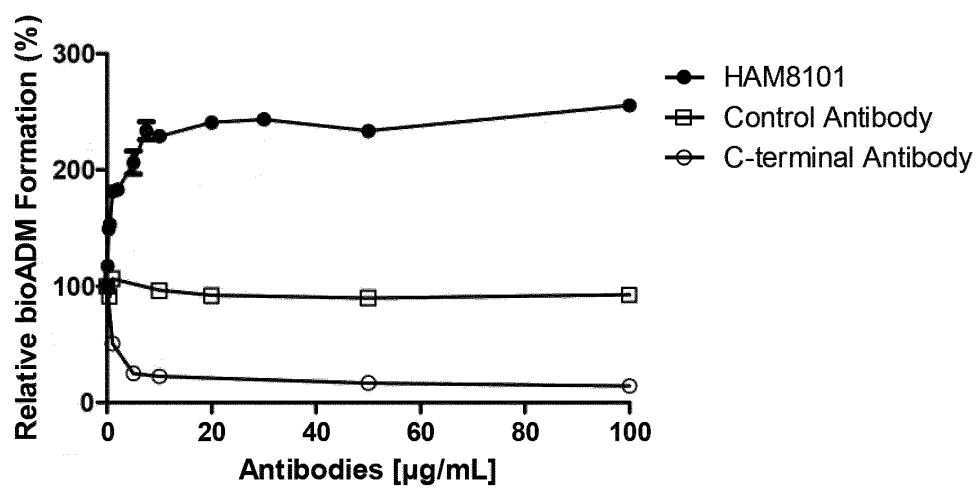


Fig. 8

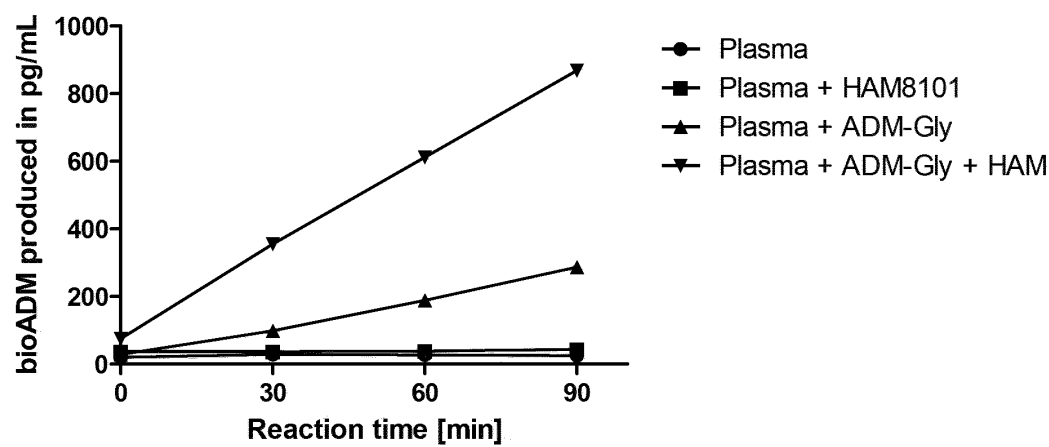


Fig. 9

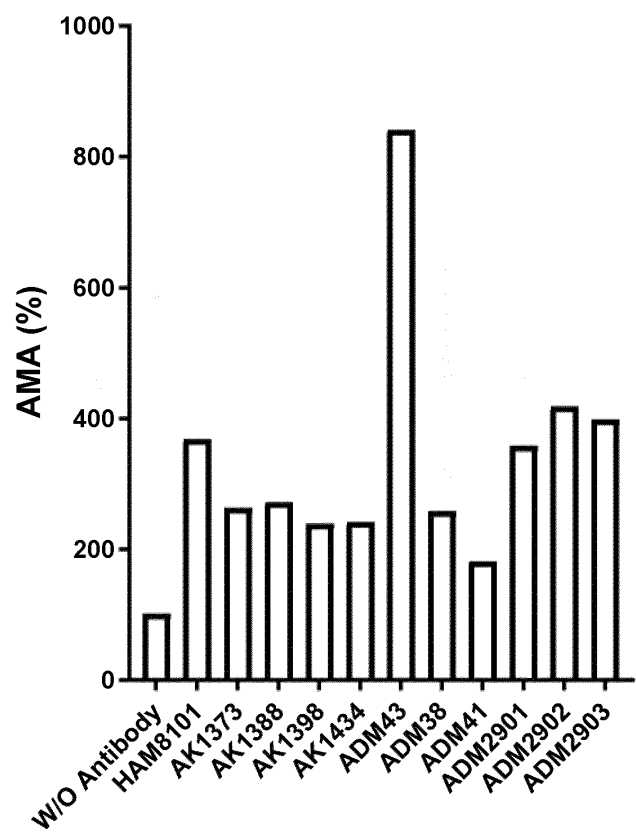


Fig. 10

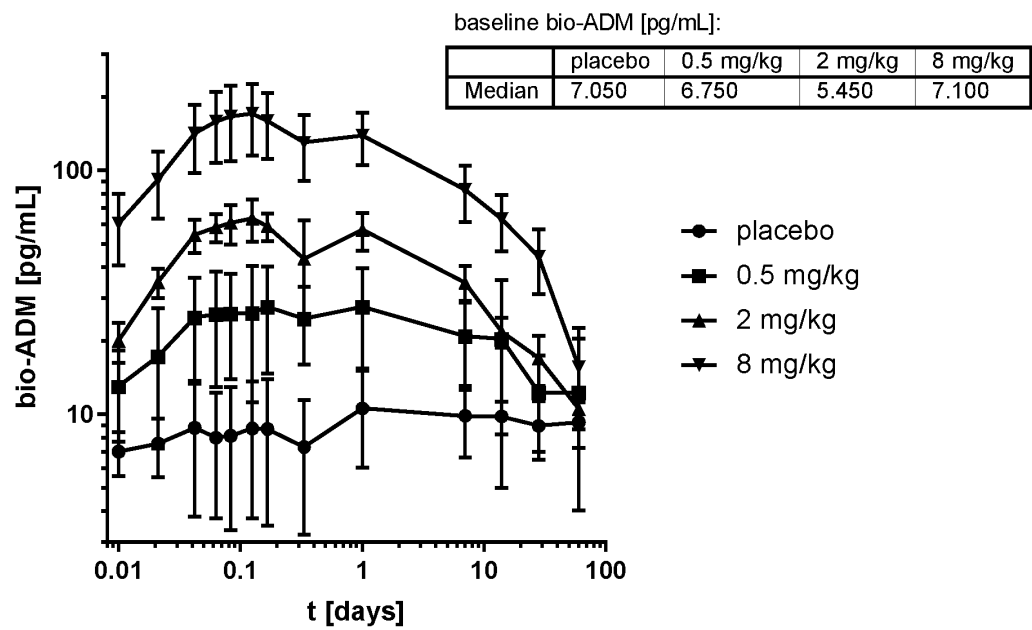


Fig. 11

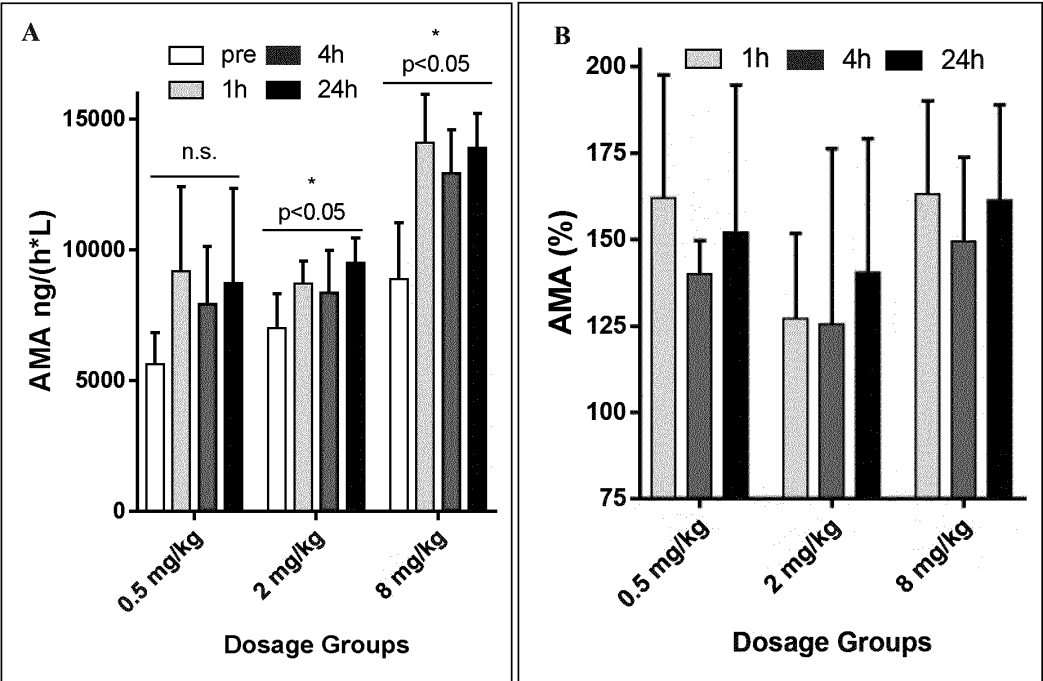


Fig. 12

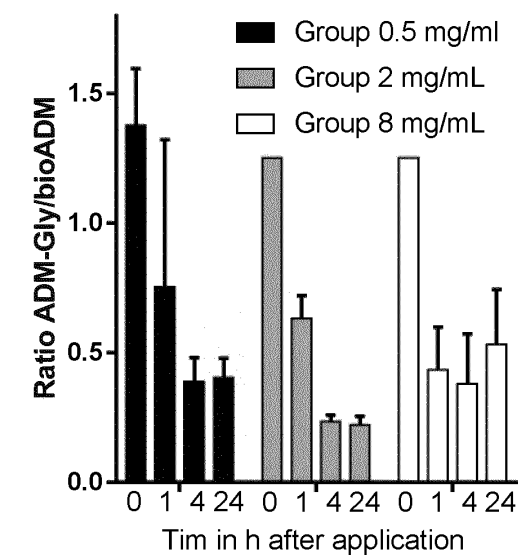


Fig. 13

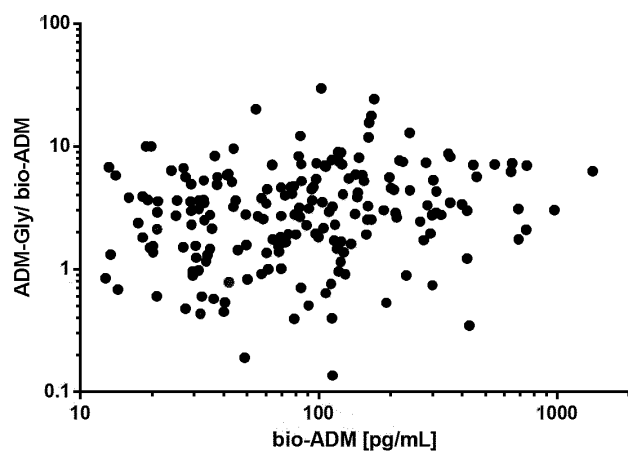


Fig. 14

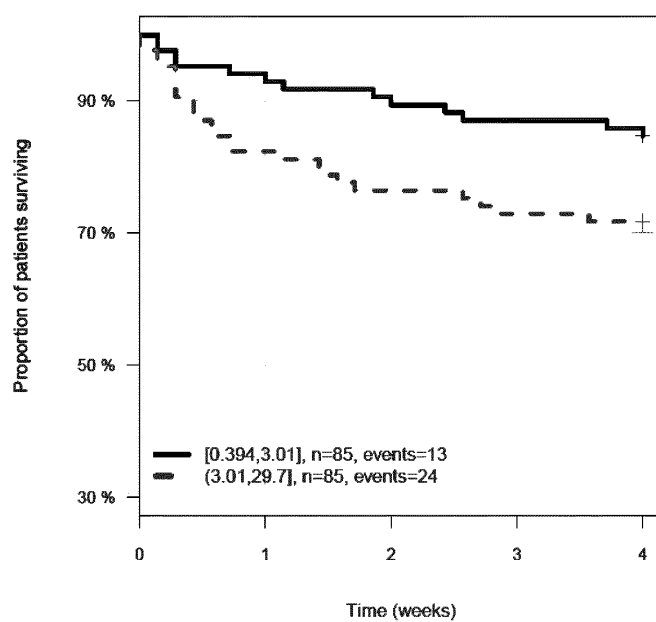


Fig. 15

