

LIGHT CHAIN Graft 11041

	1	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	
Light 11041	AVVLTQTASPV	SA	PVG	GT	VI	TI	K	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	QPKLLIY	<u>WASTLAS</u>	GV	PS	RF	KG	SG	SG	TE	FT	LT	IS	DL
	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	
IGKV1D-13	AIQLTQSPSSI	SASV	GD	RV	TI	IT	<u>CRASQGIS</u>	SALA	AWYQ	QK	PG	KAPKLLIY	<u>DASSLES</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL
	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	
	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (C91S)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (C91V)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL6	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL7	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (N95D)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (S96A)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (C91S, S96)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL1 (C91S)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL7 (C91S)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL7 (C91S)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL6 (C91S, S96)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE
11041gL7 (C91S, S96)	AVVLTQSPSSI	SASV	GD	RV	TI	IT	<u>QASEDIYTNLA</u>	AWYQ	QK	PG	KAPKLLIY	<u>WASTLAS</u>	GV	PS	RF	SG	SG	SG	TE	FT	LT	IS	DL	PE

Legend

11041 = Rabbit variable light chain sequence.
11041gL1, gL6 and gL7 = Humanized grafts of 11041 variable light chain using IGKV1D-13 human germline as the acceptor framework.
CDRs are shown in bold/underlined.
Donor residues are shown in bold/italic and are highlighted: V2 and V3.
Mutations in CDRL3 to replace a free Cysteine residue (C91S and C91V) or to modify a potential Asparagine deamidation site (N95D or S96A) are shown in bold/underlined and are highlighted.

Figure 1

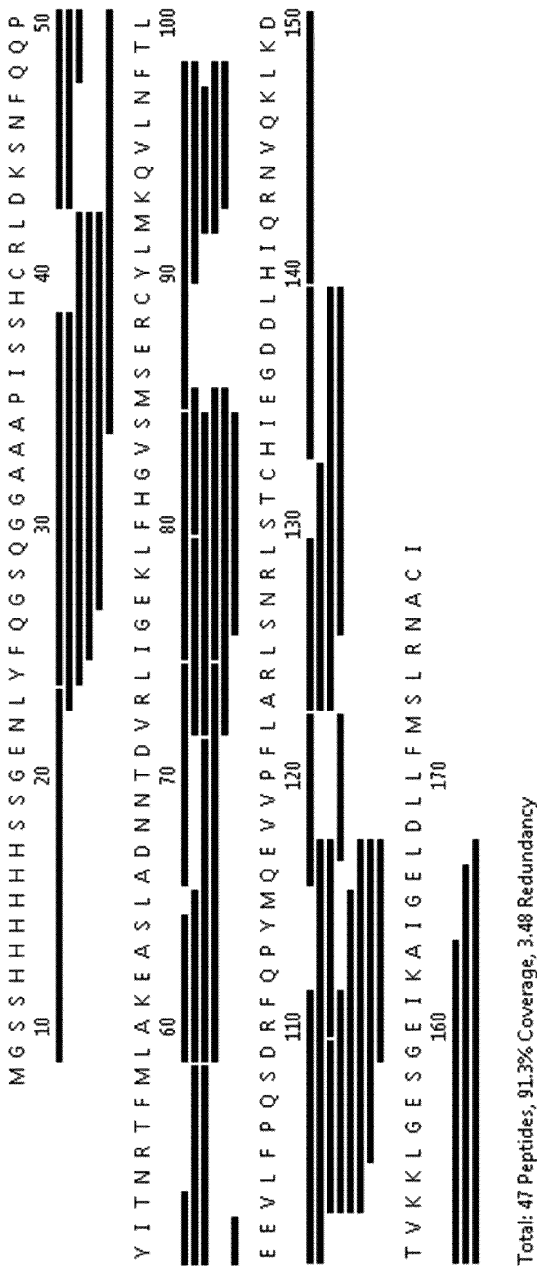


Figure 4

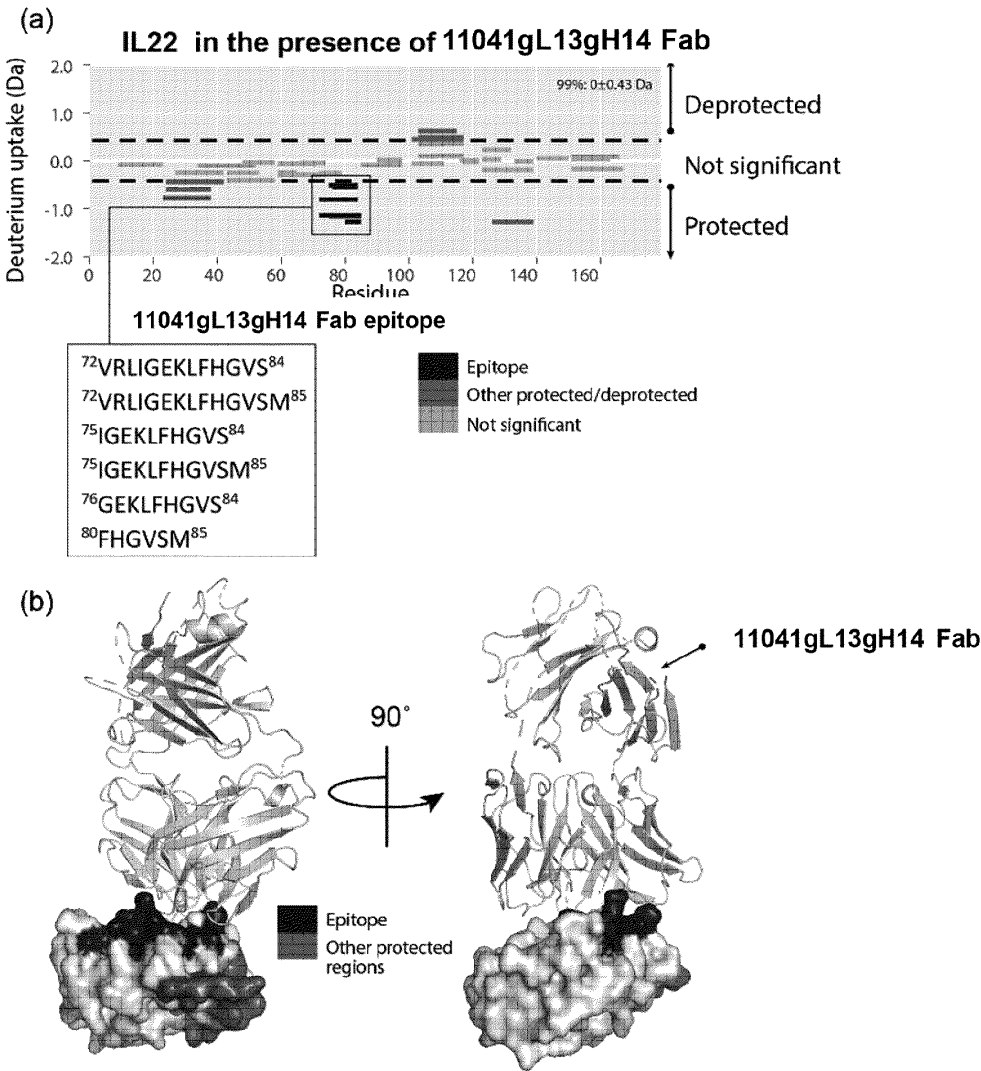


Figure 5

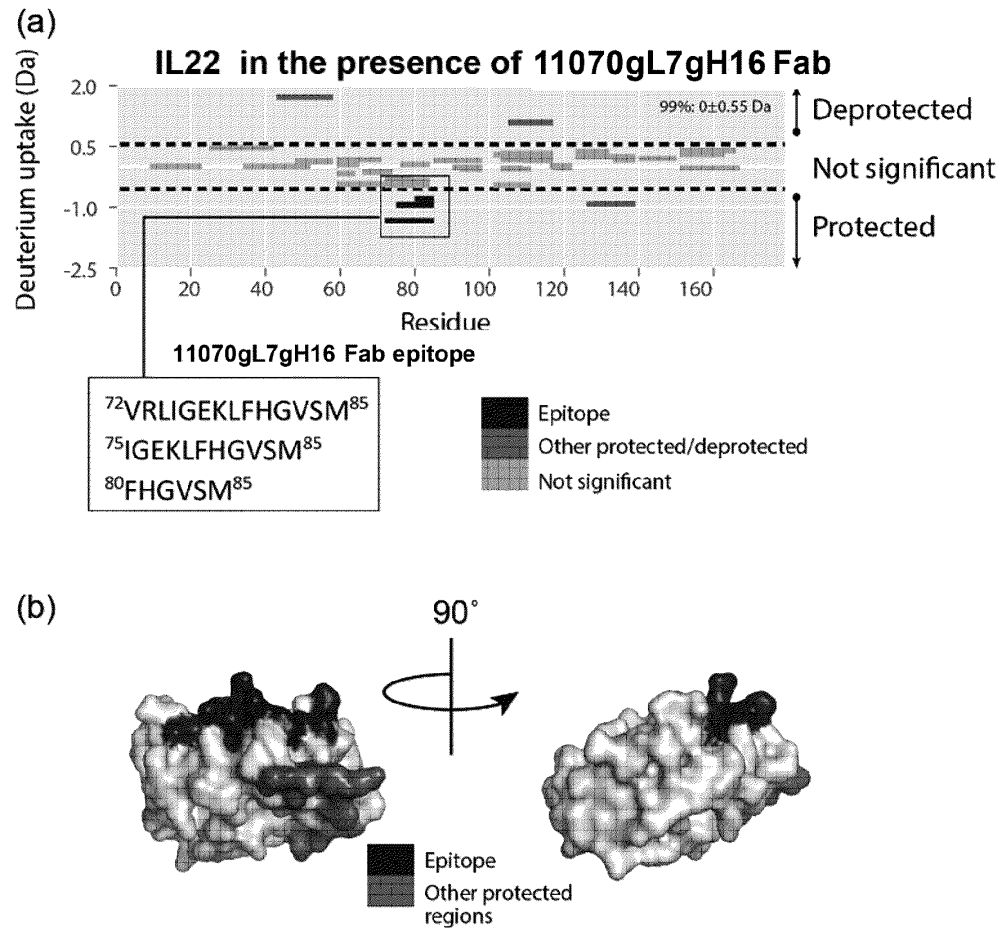


Figure 6

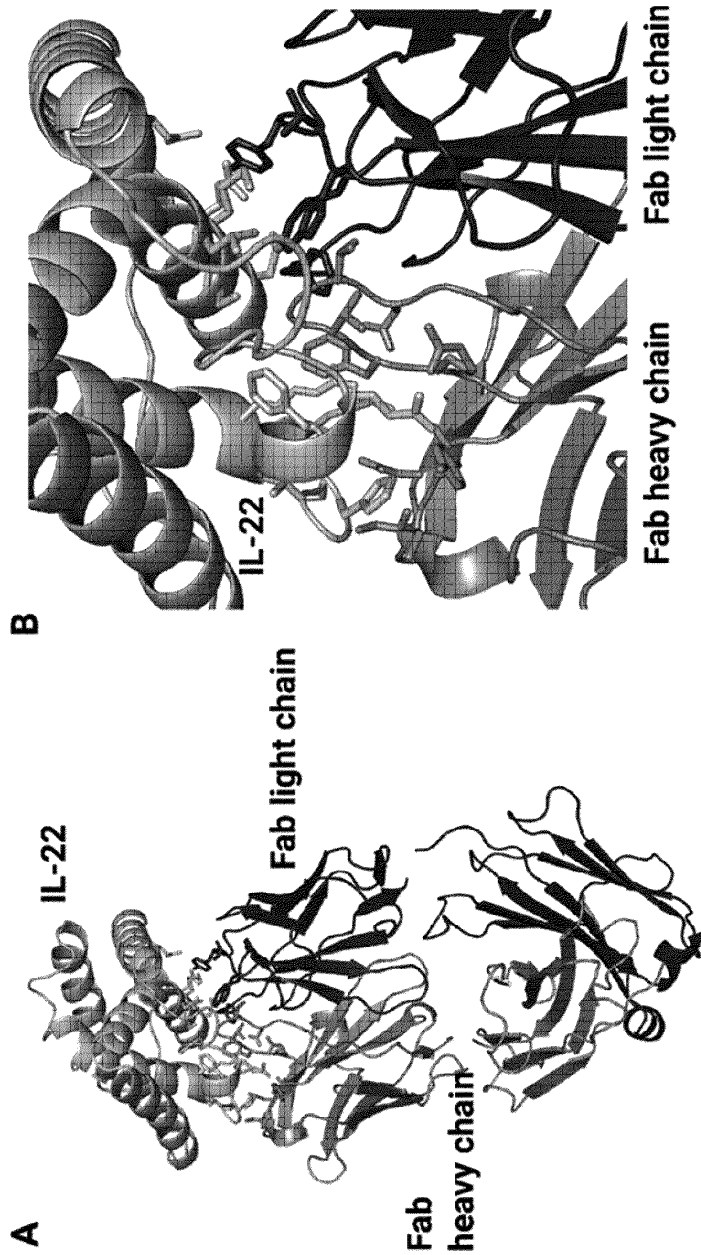


Figure 7

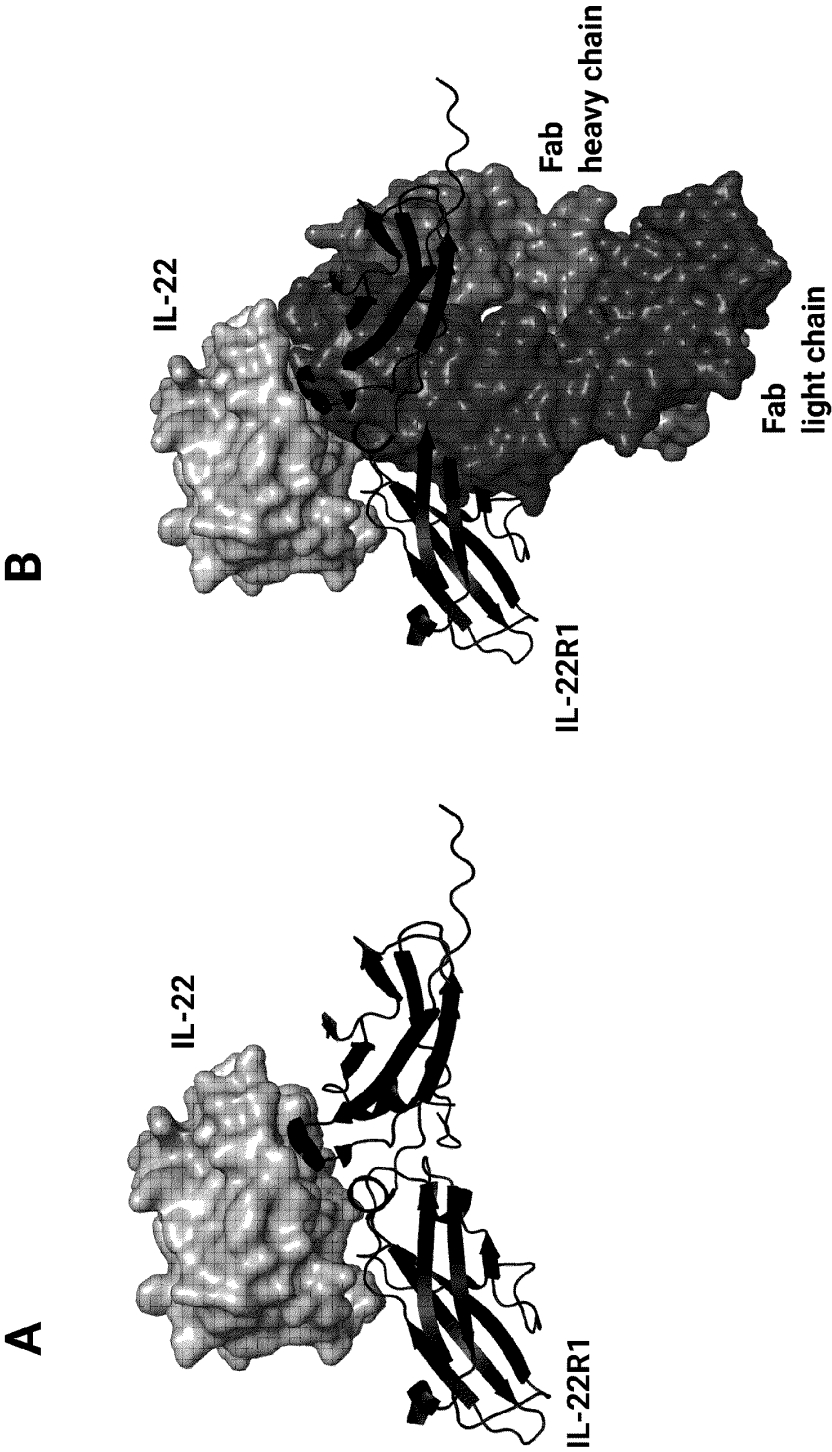


Figure 8

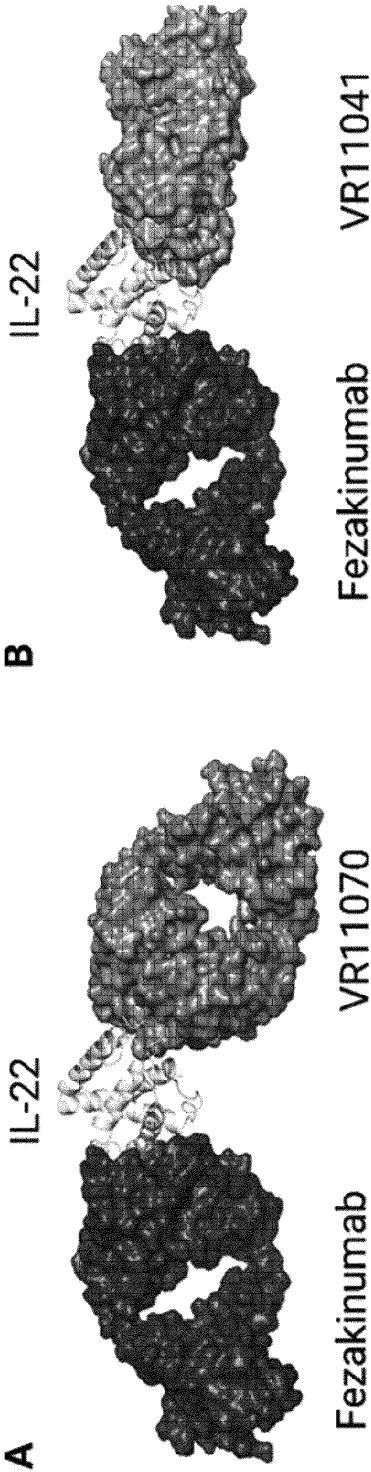
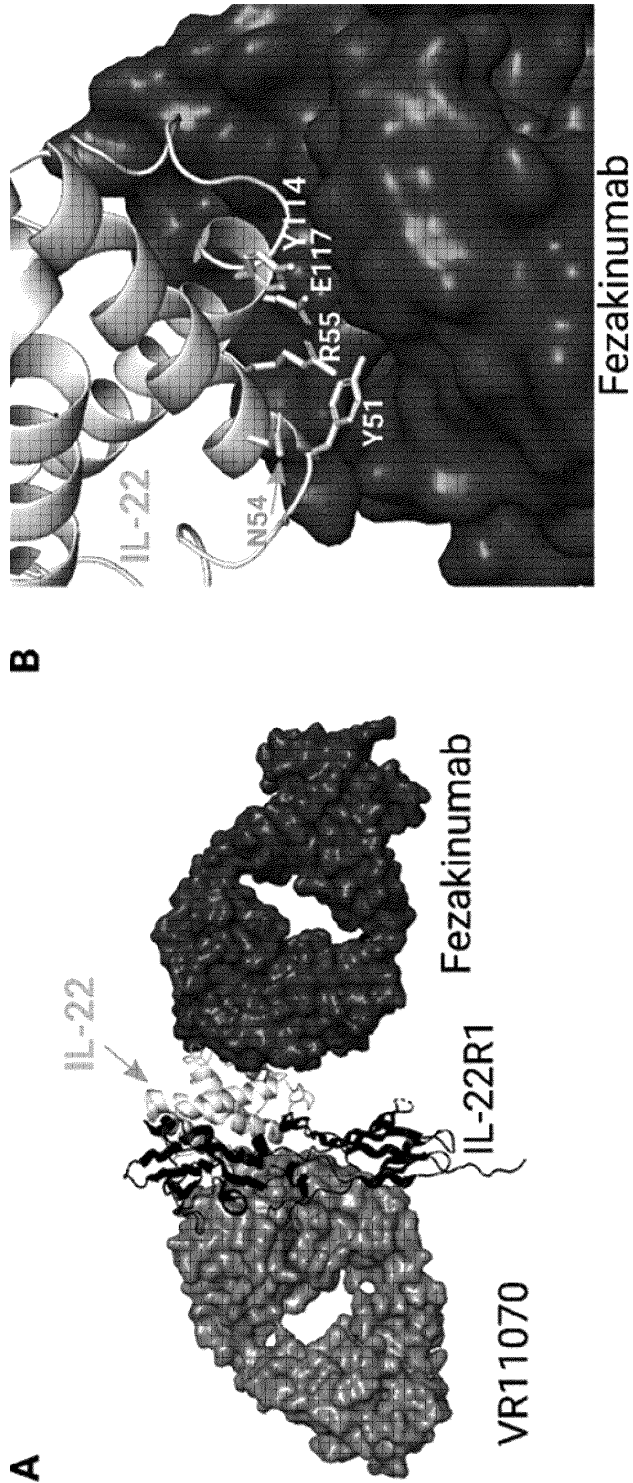
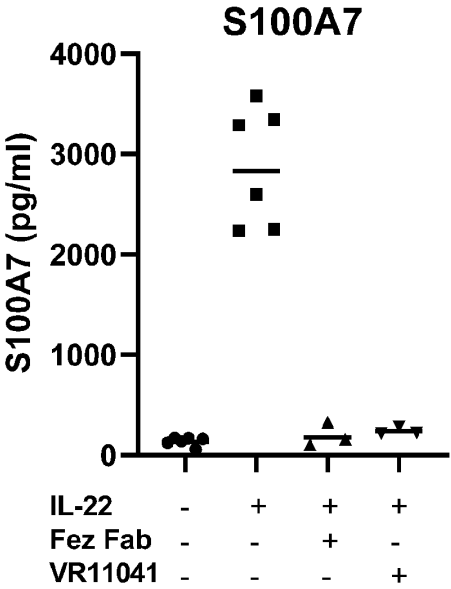


Figure 9



A



B

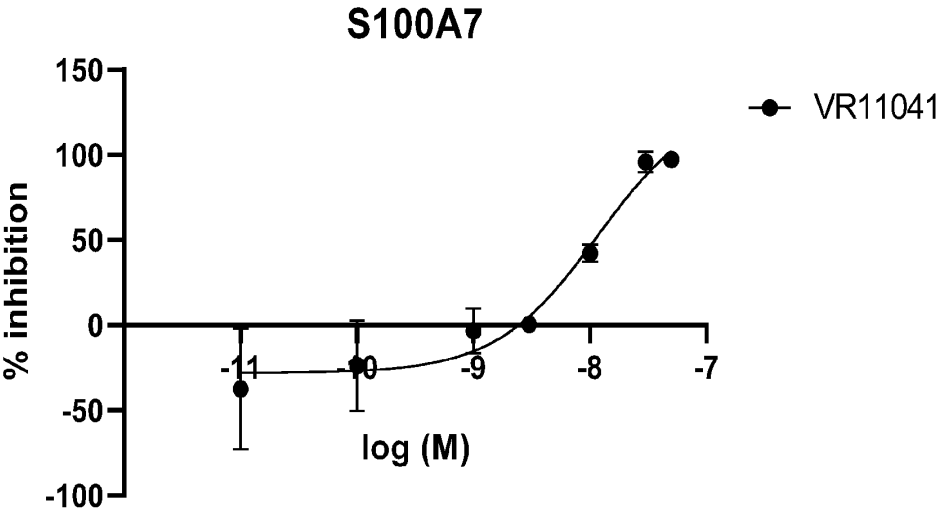


Figure 11