

1/9

A

SEQ ID NO:1

TGTAATCTGTCTCAAACCCACAGCCTGGGTAGCAAGAGGACCTTGATGCTCCTGGCGCAGATGGGGAAAATC
 TCCCTTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATTTCCCCAGGAGGAATTTGATGGCAACCAGTTC
 CAGAAAGCTCAAGCCATCTCTGTCTCCATGAGCTGATCCAGCAGACCTTCAATCTCTTCAGCACAAAGGAA
 TCATCTGCTGCTTGGGATGAGGGCCTCCTAGACAAATTCCGCACCGAACTCTACCGGCAGCTAAATGACTTG
 GAAGCCTGTATGATGCAGGAGGTTGGGGTGAAGAGACTCCCCTGATGAATGCGGACTCCATCCTGGCTGTG
 AAGAAATACTTCCAAAGAATCACTCTTTATCTGATGGAGAAGAAATACAGCCCTTGTGCCTGGGAGGTTGTC
 AGAGTAGAAATCATGAGATCCCTCTCTTTTCAACAACTTGCAAAAAAGATTAAGGGGAAGGAT

B

SEQ ID NO:2

CNLSQTHSLGSKRTLMLLAQMKGKISLFSCLKDRHDFEFPQEEFDGNQFQKA
 QAISVLHELIQQTFFNLFSKSSAAWDEGLLDKFRTELYRQLNDLEACMMQ
 EVGVEETPLMNADSLAVKKYFQRITLYLMEKKYSPCAWEVVRVEIMRSL
 FSTNLQKRLRGKD

C

DNA	1	TGTAATCTGTCTCAAACCCACAGCCTGGGTAGCAAGAGGACCTTGATGCTC
Protein	1	C N L S Q T H S L G S K R T L M L
DNA	52	CTGGCGCAGATGGGGAAAATCTCCCTTTTCTCCTGCCTGAAGGACAGACAT
Protein	18	L A Q M G K I S L F S C L K D R H
DNA	103	GACTTTGAATTTCCCCAGGAGGAATTTGATGGCAACCAGTTCAGAAAGCT
Protein	35	D F E F P Q E E F D G N Q F Q K A
DNA	154	CAAGCCATCTCTGTCTCCATGAGCTGATCCAGCAGACCTTCAATCTCTTC
Protein	52	Q A I S V L H E L I Q Q T F N L F
DNA	205	AGCACAAAGGAATCATCTGCTGCTTGGGATGAGGGCCTCCTAGACAAATTC
Protein	69	S T K E S S A A W D E G L L D K F
DNA	256	CGCACCGAACTCTACCGGCAGCTAAATGACTTGGAAGCCTGTATGATGCAG
Protein	86	R T E L Y R Q L N D L E A C M M Q
DNA	307	GAGGTTGGGGTGAAGAGACTCCCCTGATGAATGCGGACTCCATCCTGGCT
Protein	103	E V G V E E T P L M N A D S I L A
DNA	358	GTGAAGAAATACTTCCAAAGAATCACTCTTTATCTGATGGAGAAGAAATAC
Protein	120	V K K Y F Q R I T L Y L M E K K Y
DNA	409	AGCCCTTGTGCCTGGGAGGTTGTCAGAGTAGAAATCATGAGATCCCTCTCT
Protein	137	S P C A W E V V R V E I M R S L S
DNA	460	TTTTCAACAACTTGCAAAAAAGATTAAGGGGAAGGAT
protein	154	F S T N L Q K R L R G K D

Fig. 1

2/9

A

Novaferon	1	TGTAATCTGTCTCAAACCCACAGCCTGGGTAGCAAGAGGACCTTGATGCTCCTGGCGCAG
IFN α 14	126	TGTAATCTGTCTCAAACCCACAGCCTGAATAACAGGAGGACTTTGATGCTCATGGCACAA
Novaferon	61	ATGGGGAAAAATCTCCCTTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATTTCCCCAG
IFN α 14	186	ATGAGGAGAATCTCTCCTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATTTCCCCAG
Novaferon	121	GAGGAATTTGATGGCAACCAGTTCCAGAAAGCTCAAGCCATCTCTGTCCTCCATGAGCTG
IFN α 14	246	GAGGAATTTGATGGCAACCAGTTCCAGAAAGCTCAAGCCATCTCTGTCCTCCATGAGATG
Novaferon	181	ATCCAGCAGACCTTCAATCTCTTCAGCACAAAGGAATCATCTGCTGCTTGGGATGAGGGC
IFN α 14	306	ATGCAGCAGACCTTCAATCTCTTCAGCACAAAGAACTCATCTGCTGCTTGGGATGAGACC
Novaferon	341	CTCCTAGACAAATTCCGCACCGAACTCTACCGGCAGCTAAATGACTTGGAAGCCTGTATG
IFN α 14	366	CTCCTAGAAAAATTCTACATTGAACCTTTCCAGCAAATGAATGACCTGGAAGCCTGTGTG
Novaferon	301	ATGCAGGAGGTTGGGGTGGGAAGAGACTCCCCTGATGAATGCGGACTCCATCCTGGCTGTG
IFN α 14	426	ATACAGGAGGTTGGGGTGGGAAGAGACTCCCCTGATGAATGAGGACTCCATCCTGGCTGTG
Novaferon	361	AAGAAATACTTCCAAAGAATCACTCTTTATCTGATGGAGAAGAAATACAGCCCTTGTGCC
IFN α 14	486	AAGAAATACTTCCAAAGAATCACTCTTTATCTGATGGAGAAGAAATACAGCCCTTGTGCC
Novaferon	421	TGGGAGGTTGTCAGAGTAGAAATCATGAGATCCCTCTCTTTTTTCAACAACTTGCAAAAA
IFN α 14	546	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCCTTCTCTTTTTTCAACAACTTGCAAAAA
Novaferon	481	AGATTAAGGGGAAGGAT 498
IFN α 14	606	AGATTAAGGAGGAAGGAT 623

B

Novaferon	1	CNLSQTHSLGSKRTLMLLAQMGKISLFSCLKDRHDFEFPQEEFDGNQFQK
IFN α 14	24	NNR.....M...RR..P.....
Novaferon	51	AQAISVLHELIQQTFNLFSTKESSAAWDEGLLDKFRTELYRQLNDLEACM
IFN α 14	73	MM.....N.....T..E..YI..FQ.M....V
Novaferon	101	MQEVGVEETPLMNADSILAVKKYFQRITLYLMEKKYSPCAWEVVRVEIMR
IFN α 14	123	I.....E.....A....
Novaferon	151	SLSFSTNLQKRLRGKD 166
IFN α 14	173	R.. 189

Fig. 2

Novaferon	1	TGTAATCTGTCTCAAAACCCACAGCCTGGGTAGCAAGAGGACCTTGATGCTCCTGGCGCAG TGG
IFN α 2b	138	TGTGATCTGCCTCAAACCCACAGCCTGGGTAGCAGGAGGACCTTGATGCTCCTGGCACAG
Novaferon	61	ATGGGGAATACTCTCCCTTTTCTCCTGCCTGAAGGACAGACATGACTTTGAATTTCGCCAG
IFN α 2b	198	ATGAGGAGAATCTCTCTTTTTCTCCTGCTTGAAGGACAGACATGACTTTGGATTTCGCCAG
Novaferon	121	GAGGAATTTGATGGCAACCAGTTCAGAAAGCTCAAGCCATCTCTGTCTCCATGAGCTG
IFN α 2b	258	GAGGAGTTTG---GCAACCAGTTCCAAAAGGCTGAAACCATCCCTGTCTCCATGAGATG
Novaferon	181	ATCCAGCAGACCTTCAATCTCTTCAGCACAAAGGAATCATCTGCTGCTTGGGATGAGGGC
IFN α 2b	315	ATCCAGCAGATCTTCAATCTCTTCAGCACAAAGGACTCATCTGCTGCTTGGGATGAGACC
Novaferon	241	CTCCTAGACAAATTCCGCACCGA ACTCTACCGGCAGCTAAATGACTTGGAAGCCTGTATG
IFN α 2b	375	CTCCTAGACAAATTCTACACTGAACTCTACCAGCAGCTGAATGACCTGGAAGCCTGTGTG
Novaferon	301	ATGCAGGAGGTTGGGGTGGAAGAGACTCCCCTGATGAATGCGGACTCCATCCTGGCTGTG
IFN α 2b	435	ATACAGGGGGTGGGGGTGACAGAGACTCCCCTGATGAAGGAGGACTCCATTCTGGCTGTG
Novaferon	361	AAGAAATACTTCCAAGAATCACTCTTTATCTGATGGAGAAGAAATACAGCCCTTGTGCC
IFN α 2b	495	AGGAAATACTTCCAAGAATCACTCTCTATCTGAAAGAGAAGAAATACAGCCCTTGTGCC
Novaferon	421	TGGGAGGTTGTCAGAGTAGAAATCATGAGATCCCTCTCTTTTTTCAACAACTTGCAAAAA
IFN α 2b	555	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCTTTTCTTTTGTCAACAACTTGCAAGAA
Novaferon	481	AGATTAAGGGGGAAGGAT 498
IFN α 2b	615	AGTTTAAGAAGTAAGGAA 632

Novaferon	1	CNLSQTHSLGSKRTLMLLAQMKGKISLFSCCLKDRHDFEFPQEEFDGNQFQK
IFN α 2b	1	.D.P.....R.....RR.....F.....
Novaferon	50	AQAISVLHELIIQQTFNLFSTKESSAAWDEGLLDKFRTELYRQLNDLEACM
IFN α 2	49	.ET.....E...Q.....K.....E....F....Y.....CV
Novaferon	100	MQEVGVVEETPLMNADSI LAVKKYFQRITLYLMEKKYSPCAWEVVVRVEIMR
IFN α 2b	99	I.G...T.....KE.....R.....K.....A....
Novaferon	150	SLSFSTNLQKRLRGKD 166
IFN α 2b	149	.F.L.....ES..S.E 165

FIG. 3

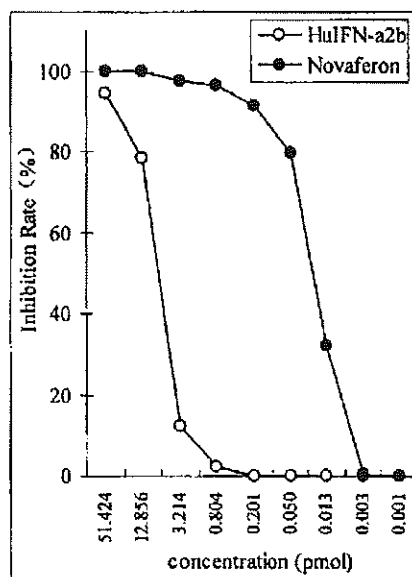


Fig. 4

5/9

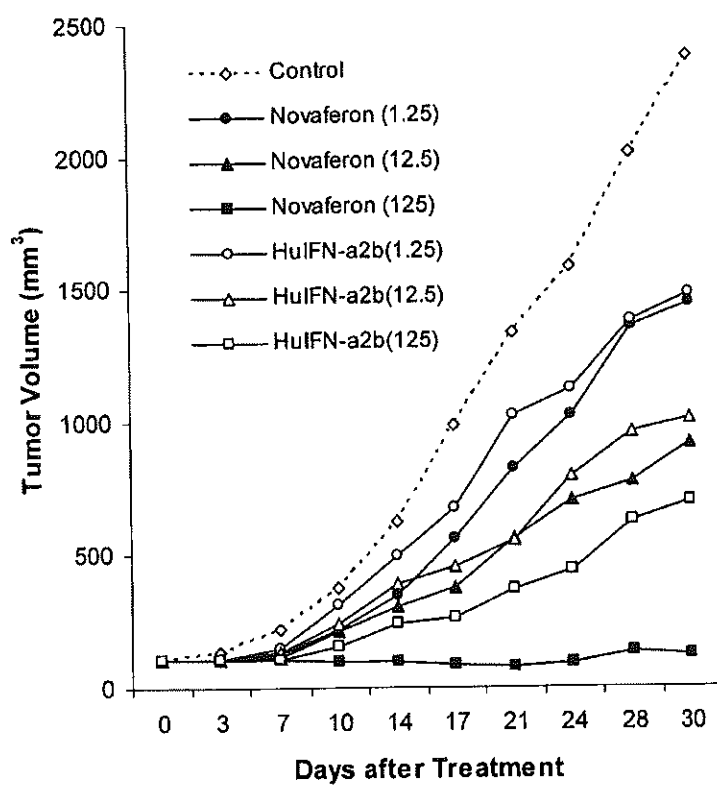


Fig. 5

6/9

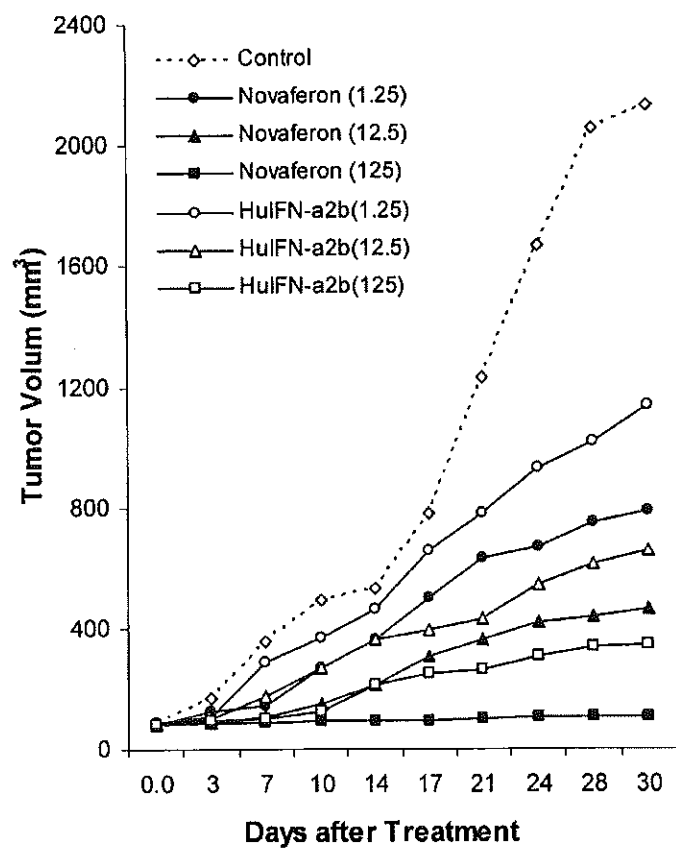


Fig. 6

7/9

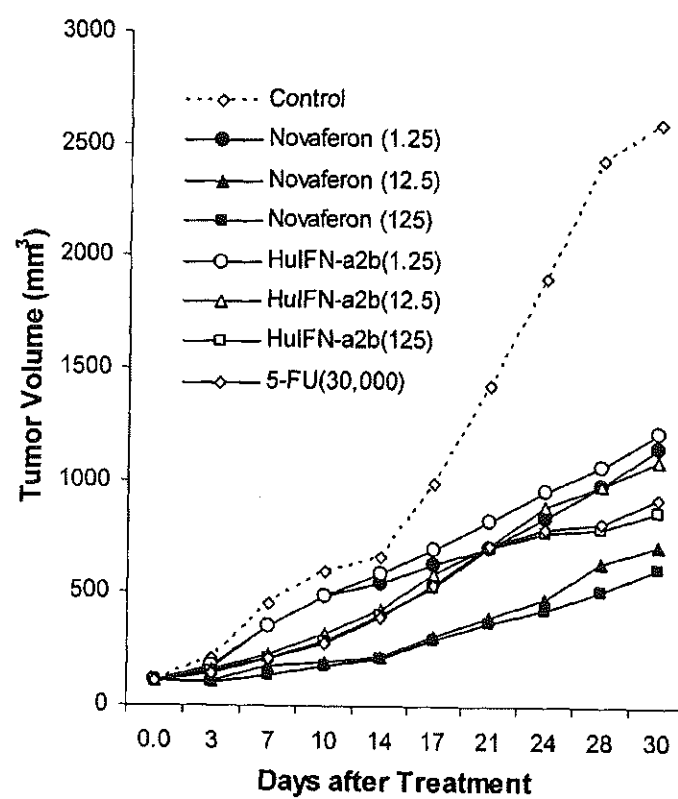


Fig. 7

8/9

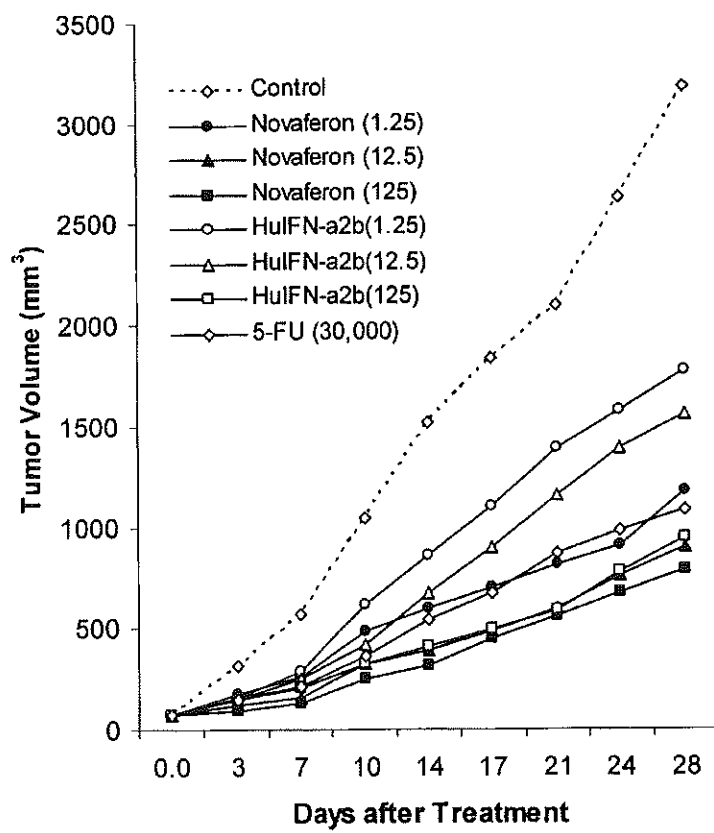


Fig. 8

9/9

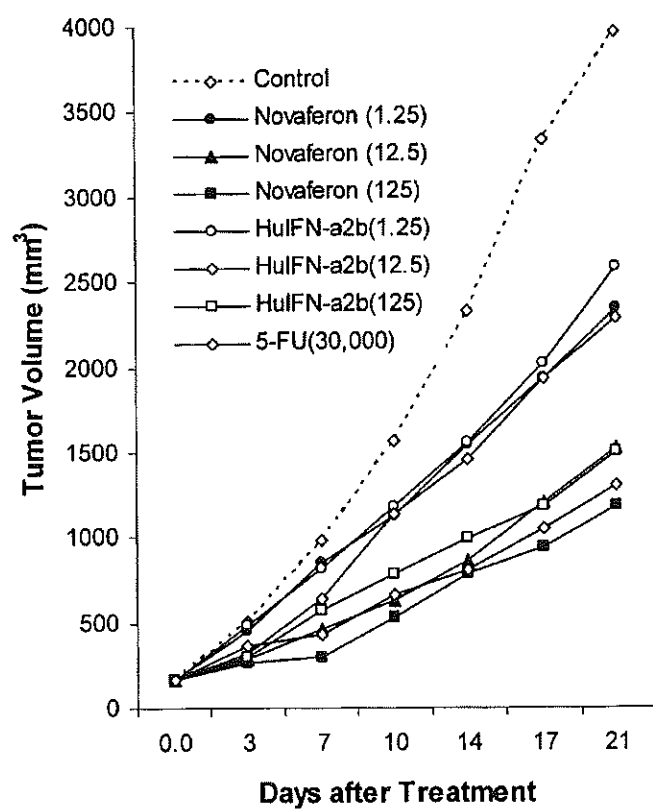


Fig. 9