SEQUENCE LISTING

<110> OTSUKA PHARMACEUTICAL FACTORY, INC

<120> Method of producing sheet islet

<130> 091847

<150> JP2011-086336
<151> 2011-04-08

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<170> PatentIn version 3.4

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Thr Lys Val Thr Leu Asn Thr Val Gly His His His Arg Pro Pro Pro
115 120 125

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His Gln Ala Ser Val Ser Gly Ile Gln Ala Glu Leu Leu Thr Phe Pro
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Asn Ser Ser Pro Gly Leu Arg Arg Gln Lys Arg Asp Trp Val Ile Pro
145 150 155

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Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Pro Phe Pro Lys Asn Leu
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gtg cct gag aac gag gct aac gtc gta atc acc aca ctg aaa gtg act     1321
Val Pro Glu Asn Glu Ala Asn Val Val Ile Thr Thr Leu Lys Val Thr
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Asp Ala Asp Ala Pro Asn Thr Pro Ala Trp Glu Ala Val Tyr Thr Ile
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                420                 425                 430

aac gat ggc att ttg aaa aca gca aag ggc ttg gat ttt gag gcc aag     1465
Asn Asp Gly Ile Leu Lys Thr Ala Lys Gly Leu Asp Phe Glu Ala Lys
            435                 440                 445

cag cag tac att cta cac gta gca gtg acg aat gtg gta cct ttt gag     1513
Gln Gln Tyr Ile Leu His Val Ala Val Thr Asn Val Val Pro Phe Glu
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Ser Glu Asp Phe Gly Val Gly Gln Glu Ile Thr Ser Tyr Thr Ala Gln
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Glu Pro Asp Thr Phe Met Glu Gln Lys Ile Thr Tyr Arg Ile Trp Arg
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Asp Thr Ala Asn Trp Leu Glu Ile Asn Pro Asp Thr Gly Ala Ile Ser
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Lys Pro Gln Val Ile Asn Ile Ile Asp Ala Asp Leu Pro Pro Asn Thr
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tct ccc ttc aca gca gaa cta aca cac ggg gcg agt gcc aac tgg acc      2041
Ser Pro Phe Thr Ala Glu Leu Thr His Gly Ala Ser Ala Asn Trp Thr
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Cys Glu Gly Ala Ala Gly Val Cys Arg Lys Ala Gln Pro Val Glu Ala
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aaa gcg gct gat act gac ccc aca gcc ccg cct tat gat tct ctg ctc      2617
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Arg Thr Ala Tyr Phe Ser Leu Asp Thr Arg Phe Lys Val Gly Thr Asp
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Gly Val Ile Thr Val Lys Arg Pro Leu Arg Phe His Asn Pro Gln Ile
85 90 95

His Phe Leu Val Tyr Ala Trp Asp Ser Thr Tyr Arg Lys Phe Ser Thr
100 105 110

Lys Val Thr Leu Asn Thr Val Gly His His His Arg Pro Pro Pro His
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130 135 140

Ser Ser Pro Gly Leu Arg Arg Gln Lys Arg Asp Trp Val Ile Pro Pro
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340 345 350

Glu Gly Leu Ser Thr Thr Ala Thr Ala Val Ile Thr Val Thr Asp Thr
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370 375 380

Pro Glu Asn Glu Ala Asn Val Val Ile Thr Thr Leu Lys Val Thr Asp
385 390 395 400

Ala Asp Ala Pro Asn Thr Pro Ala Trp Glu Ala Val Tyr Thr Ile Leu
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Asp Gly Ile Leu Lys Thr Ala Lys Gly Leu Asp Phe Glu Ala Lys Gln
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Gln Tyr Ile Leu His Val Ala Val Thr Asn Val Val Pro Phe Glu Val
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Glu Asp Phe Gly Val Gly Gln Glu Ile Thr Ser Tyr Thr Ala Gln Glu
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Pro Asp Thr Phe Met Glu Gln Lys Ile Thr Tyr Arg Ile Trp Arg Asp
515 520 525

Thr Ala Asn Trp Leu Glu Ile Asn Pro Asp Thr Gly Ala Ile Ser Thr
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Arg Ala Glu Leu Asp Arg Glu Asp Phe Glu His Val Lys Asn Ser Thr
545 550 555 560

Tyr Thr Ala Leu Ile Ile Ala Thr Asp Asn Gly Ser Pro Val Ala Thr
565 570 575

Gly Thr Gly Thr Leu Leu Leu Ile Leu Ser Asp Val Asn Asp Asn Ala
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Pro Ile Pro Glu Pro Arg Thr Ile Phe Phe Cys Glu Arg Asn Pro Lys
595 600 605

Pro Gln Val Ile Asn Ile Ile Asp Ala Asp Leu Pro Pro Asn Thr Ser
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Pro Phe Thr Ala Glu Leu Thr His Gly Ala Ser Ala Asn Trp Thr Ile
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Glu Gly Ala Ala Gly Val Cys Arg Lys Ala Gln Pro Val Glu Ala Gly
690 695 700

Leu Gln Ile Pro Ala Ile Leu Gly Ile Leu Gly Gly Ile Leu Ala Leu
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Leu Ile Leu Ile Leu Leu Leu Leu Leu Phe Leu Arg Arg Arg Ala Val
725 730 735

Val Lys Glu Pro Leu Leu Pro Pro Glu Asp Asp Thr Arg Asp Asn Val
740 745 750

Tyr Tyr Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp Phe Asp
755 760 765

Leu Ser Gln Leu His Arg Gly Leu Asp Ala Arg Pro Glu Val Thr Arg
770 775 780

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Asn Asp Val Ala Pro Thr Leu Met Ser Val Pro Arg Tyr Leu Pro Arg
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Pro Ala Asn Pro Asp Glu Ile Gly Asn Phe Ile Asp Glu Asn Leu Lys
                805                 810                 815

Ala Ala Asp Thr Asp Pro Thr Ala Pro Pro Tyr Asp Ser Leu Leu Val
            820                 825                 830

Phe Asp Tyr Glu Gly Ser Gly Ser Glu Ala Ala Ser Leu Ser Ser Leu
        835                 840                 845

Asn Ser Ser Glu Ser Asp Lys Asp Gln Asp Tyr Asp Tyr Leu Asn Glu
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Met Phe Pro Ser Val Tyr Pro Gly Leu Arg Arg Gln Lys Arg Asp Trp
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Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys Gly Glu Phe Pro
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Lys Asn Leu Val Gln Ile Lys Ser Asn Arg Asp Lys Glu Thr Lys Val
175                 180                 185                 190

ttc tac agc atc acc ggc caa gga gct gac aaa ccc ccc gtt ggc gtt      745
Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Lys Pro Pro Val Gly Val
                195                 200                 205

ttc atc att gag agg gag aca ggc tgg ctg aaa gtg aca cag cct ctg      793
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Ser Asn Gly Glu Ala Val Glu Asp Pro Met Glu Ile Val Ile Thr Val
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255                 260                 265                 270

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ctg gac cga gag agt tac cct aca tac act ctg gtg gtt cag gct gct     1177
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gac ctt caa ggt gaa ggc ttg agc aca aca gcc aag gct gtg atc act     1225
Asp Leu Gln Gly Glu Gly Leu Ser Thr Thr Ala Lys Ala Val Ile Thr
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gtc aag gat att aat gac aac gct cct gtc ttc aac cca agc acg tat     1273
Val Lys Asp Ile Asn Asp Asn Ala Pro Val Phe Asn Pro Ser Thr Tyr
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cag ggt caa gtg cct gag aat gag gtc aat gcc cgg atc gcc aca ctc     1321
Gln Gly Gln Val Pro Glu Asn Glu Val Asn Ala Arg Ile Ala Thr Leu
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aaa gtg acc gat gat gat gcc ccc aac act ccg gcg tgg aaa gct gtg     1369
Lys Val Thr Asp Asp Asp Ala Pro Asn Thr Pro Ala Trp Lys Ala Val
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Tyr Thr Val Val Asn Asp Pro Asp Gln Gln Phe Val Val Val Thr Asp
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gag gcc aag cag caa tac atc ctt cat gtg aga gtg gag aac gag gaa     1513
Glu Ala Lys Gln Gln Tyr Ile Leu His Val Arg Val Glu Asn Glu Glu
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ccc ttt gag ggg tct ctt gtc cct tcc aca gcc act gtc act gtg gac     1561
Pro Phe Glu Gly Ser Leu Val Pro Ser Thr Ala Thr Val Thr Val Asp
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gtg gta gac gtg aat gaa gcc ccc atc ttt atg cct gcg gag agg aga     1609
Val Val Asp Val Asn Glu Ala Pro Ile Phe Met Pro Ala Glu Arg Arg
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gtc gaa gtg ccc gaa gac ttt ggt gtg ggt cag gaa atc aca tct tat     1657
Val Glu Val Pro Glu Asp Phe Gly Val Gly Gln Glu Ile Thr Ser Tyr
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acc gct cga gag ccg gac acg ttc atg gat cag aag atc acg tat cgg     1705
Thr Ala Arg Glu Pro Asp Thr Phe Met Asp Gln Lys Ile Thr Tyr Arg
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Ile Trp Arg Asp Thr Ala Asn Trp Leu Glu Ile Asn Pro Glu Thr Gly
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gcc att ttc acg cgc gct gag atg gac aga gaa gac gct gag cat gtg     1801
Ala Ile Phe Thr Arg Ala Glu Met Asp Arg Glu Asp Ala Glu His Val
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aag aac agc aca tat gta gct ctc atc atc gcc aca gat gat ggt tca     1849
Lys Asn Ser Thr Tyr Val Ala Leu Ile Ile Ala Thr Asp Asp Gly Ser
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ccc att gcc act ggc acg ggc act ctt ctc ctg gtc ctg tta gac gtc     1897
Pro Ile Ala Thr Gly Thr Gly Thr Leu Leu Leu Val Leu Leu Asp Val
575                 580                 585                 590

aat gac aac gct ccc atc cca gaa cct cga aac atg cag ttc tgc cag     1945
Asn Asp Asn Ala Pro Ile Pro Glu Pro Arg Asn Met Gln Phe Cys Gln
                595                 600                 605

agg aac cca cag cct cat atc atc acc atc ttg gat cca gac ctt ccc     1993
Arg Asn Pro Gln Pro His Ile Ile Thr Ile Leu Asp Pro Asp Leu Pro
            610                 615                 620

ccc aac acg tcc ccc ttt act gct gag cta acc cat ggg gcc agc gtc     2041
Pro Asn Thr Ser Pro Phe Thr Ala Glu Leu Thr His Gly Ala Ser Val
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aac tgg acc att gag tat aat gac gca gct caa gaa tct ctc att ttg     2089
Asn Trp Thr Ile Glu Tyr Asn Asp Ala Ala Gln Glu Ser Leu Ile Leu
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caa cca aga aag gac tta gag att ggc gaa tac aaa atc cat ctc aag     2137
Gln Pro Arg Lys Asp Leu Glu Ile Gly Glu Tyr Lys Ile His Leu Lys
655                 660                 665                 670

ctc gcg gat aac cag aac aaa gac cag gtg acc acg ttg gac gtc cat     2185
Leu Ala Asp Asn Gln Asn Lys Asp Gln Val Thr Thr Leu Asp Val His
                675                 680                 685

gtg tgt gac tgt gaa ggg acg gtc aac aac tgc atg aag gcg gga atc     2233
Val Cys Asp Cys Glu Gly Thr Val Asn Asn Cys Met Lys Ala Gly Ile
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Val Ala Ala Gly Leu Gln Val Pro Ala Ile Leu Gly Ile Leu Gly Gly
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atc ctc gcc ctg ctg att ctg atc ctg ctg ctc cta ctg ttt cta cgg     2329
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cgg gac aat gtg tat tac tat gat gaa gaa gga ggt gga gaa gaa gac     2425
Arg Asp Asn Val Tyr Tyr Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp
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cag gac ttt gat ttg agc cag ctg cac agg ggc ctg gat gcc cga ccg     2473
Gln Asp Phe Asp Leu Ser Gln Leu His Arg Gly Leu Asp Ala Arg Pro
            770                 775                 780

gaa gtg act cga aat gat gtg gct ccc acc ctc atg agc gtg ccc cag     2521
Glu Val Thr Arg Asn Asp Val Ala Pro Thr Leu Met Ser Val Pro Gln
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tat cgt ccc cgt cct gcc aat cct gat gaa att gga aac ttc atc gat     2569
Tyr Arg Pro Arg Pro Ala Asn Pro Asp Glu Ile Gly Asn Phe Ile Asp
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gaa aac ctg aag gca gcc gac agc gac ccc acg gca ccc cct tac gac     2617
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Leu Ser Ser Leu Asn Ser Ser Glu Ser Asp Gln Asp Gln Asp Tyr Asp
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Tyr Leu Asn Glu Trp Gly Asn Arg Phe Lys Lys Leu Ala Asp Met Tyr
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Glu Arg Gly His Val Leu Gly Arg Val Arg Phe Glu Gly Cys Thr Gly
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Arg Pro Arg Thr Ala Phe Phe Ser Glu Asp Ser Arg Phe Lys Val Ala
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Glu Thr Ser Phe Leu Val Arg Ala Arg Asp Ser Ser His Arg Glu Leu
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Ser Thr Lys Val Thr Leu Lys Ser Met Gly His His His His Arg His
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Leu Val Gln Ile Lys Ser Asn Arg Asp Lys Glu Thr Lys Val Phe Tyr

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Arg Glu Ser Tyr Pro Thr Tyr Thr Leu Val Val Gln Ala Ala Asp Leu
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Gln Gly Glu Gly Leu Ser Thr Thr Ala Lys Ala Val Ile Thr Val Lys
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Gln Val Pro Glu Asn Glu Val Asn Ala Arg Ile Ala Thr Leu Lys Val
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Val Val Asn Asp Pro Asp Gln Gln Phe Val Val Val Thr Asp Pro Thr
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Lys Gln Gln Tyr Ile Leu His Val Arg Val Glu Asn Glu Glu Pro Phe
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