

Table S1. RT-PCR Primer sequences for tissue genes.

Gene	Genbank accession no.	Primer sequence (5'-3')	Amplification length (bp)
Tgfr3	XM_039091792.1	F: CGGCTTTGGAAAAGAGAGTG R: CAGGAGGAATGGTGTGGACT	215
Smad3	XM_039080898.1	F: TGGACGCAGGTTCTCCAAAC R: CCGGCTCGCAGTAGGTAAC	90
Smad4	XM_032886206.1	F: GGCTGGTCGGAAAGGATT R: GTGGGTAAGGATGGCTGT	270
Foxl2	XM_003750571.5	F: TCGCTAAGTTCCCGTTCTAC R: GTAATTGCCCTTCTCGAACA	176
Fsh β	NM_001007597.2	F: CATCCTACTCTGGTGCTT R: CACTCTTCCTTCTCTACTGA	84
Tgfr3l	NM_001401205.1	F: CCTGACACCAGTGCCTTTGA R: CTAGGGGACGACGAGGTAT	156
Gnrhr	XM_032916489.1	F: TCTGCAATGCCAAAATCATC R: GTAGGGAGTCCAGCAGATGAC	164
Lh β	XM_032893648.1	F: CTTCTCCTTCTCTGATGC R: TTTATTGGGAGGGATGGT	80
Cga	XM_032890134.1	F: CACTCTGGCATTCCCATTA R: GCCAGGTCCAAGAAGACAAT	108
Fshr	NM_199237.2	F: GAATGATGTCTTGGAAGTAATAG R: CTTAATGCCTGTGTGGA	163
Lhcgr	XM_039111807.1	F: TTACACATAACCACCATACC R: TCCAGCGAGATTAGAGTC	134
Star	NM_031558.3	F: TTGGGCATACTCAACAACCA R: ATGACACCGCTTTGCTCAG	389
Cyp11a1	XM_039080972.1	F: GGAGACATGGCCAAGATGGTA R: TGATGCTGGCTTTGAGGAGTG	52
Hsd3b1	XM_032897642.1	F: TGAAAAATGGTGGCACACTGC R: TATAGTTGTAAATGGACGCAGC	414
Cyp17a1	NM_012753.3	F: ACTGAGGGTATCGTGGATGC R: TCGAACTTCTCCCTGCACTT	161
Cyp19a1	NM_017085.3	F: TCCTCCTGATTCGGAATTGTG R: GGCCCGATTCCCAGACA	70
Creb	XM_039084249.1	F: CCAAACCTAGCAGTGGGCAGT R: GAATGGTAGTACCCGGCTGA	140
Wnt2	XM_575397.8	F: TGGACAGCTGCGAAGTTATG R: TGGACAGCTGCGAAGTTATG	263
Amh	NM_012902.2	F: GGAGAGACTGGGGAACAGC R: CAAGAGCTGAGGCTCCCATTA	69
Ccnd2	NM_022267.2	F: CAGAAGGACATCCAGCCGTAC R: TCGGGACTCCAGCCAAGAA	136

Inh α	XM_032901415.1	F: GCCTTGGTCTCCTGCA R: ACGCGTAGGGACCTCATGCTCC	300
Inh β A	XM_008771712.3	F: TGGAGTGTGATGGCAAGGTC R: AGCCACACTCCTCCACAATC	339
Inh β B	NM_080771.2	F: TCTTCATCGACTTTCGGCTCAT R: TGTCAGGCGCAGCCACACTCCT	304
Gapdh	XM_039097380.1	F: GGCAAGTTCAATGGCACAGT R: TGGTGAAGACGCCAGTAGACTC	151

Abbreviations: *Tgfr3*, TGF β receptor 3; *Smad3*, SMAD family member 3; *Smad4*, SMAD family member 4; *Foxl2*, forkhead box L2; *Fshb*, follicle-stimulating hormone beta subunit; *Tgfr3l*, TGF β receptor type III-like; *Lhb*, luteinizing hormone beta subunit; *Cga*, glycoprotein hormones, alpha polypeptide; *Fshr*, follicle-stimulating hormone receptor; *Lhcgr*, luteinizing hormone receptor; *Star*, steroidogenic acute regulatory protein; *Cyp11a1*, cytochrome P450 family 11 subfamily A member 1; *Hsd3 β 1*, 3beta-hydroxysteroid dehydrogenase type 1; *Cyp17a1*, cytochrome P450 family 17 subfamily A member 1; *Cyp19a1*, cytochrome P450 family 19 subfamily A member 1 (aromatase); *Creb*, cAMP response element-binding protein; *Wnt2*, wingless-type MMTV integration site family, member 2; *Amlh*, anti-Mullerian hormone; *Cnd2*, cyclin D2; *Inha*, inhibin a; *Inh β A*, inhibin beta subunit A; *Inh β B*, inhibin beta subunit B; *Gapdh*, glyceraldehyde-3-phosphate dehydrogenase.

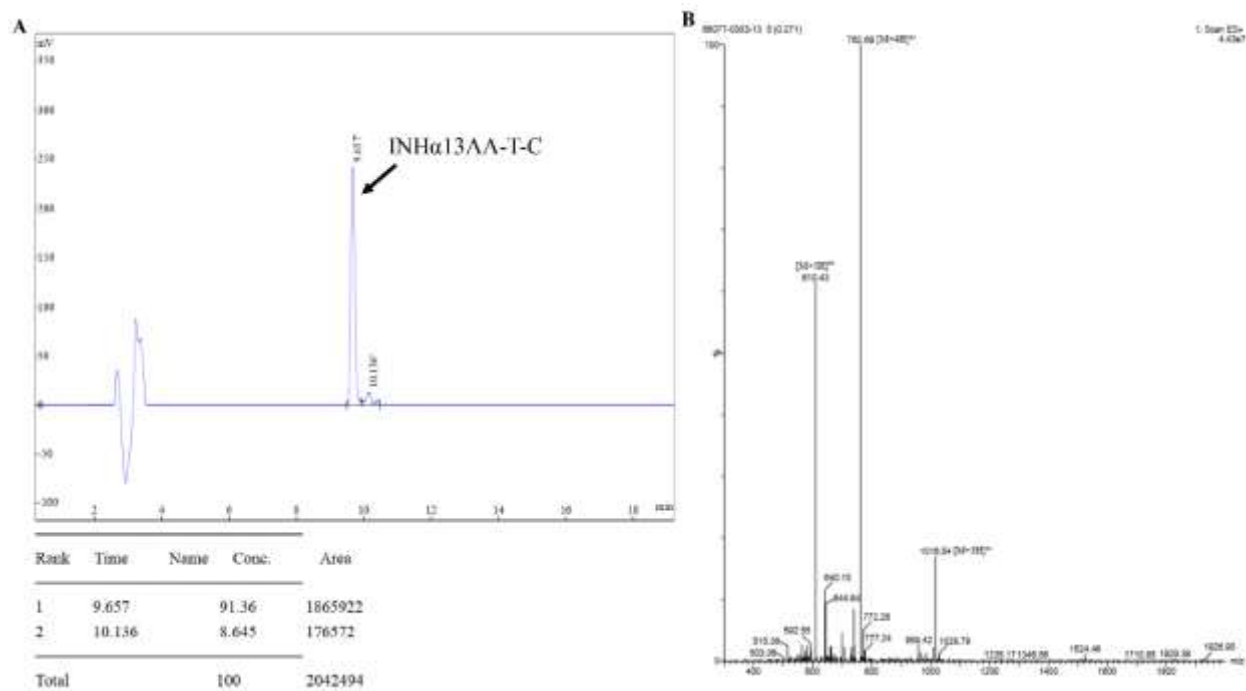


Figure S1. High-performance liquid chromatography (HPLC) purification of INH α 13AA-T-C peptide. **(A)** According to the peak area, the purity of INH α 13AA-T-C peptide was equal to 91.36%. **(B)** Identification of INH α 13AA-T-C peptide using ESI-MS.