

SUPPLEMENTAL TABLE**SECRETED PROTEINS WITH AN N-TERMINAL CYSTEINE (Human)**

Protein ID	Name	N-terminal sequence	Notes	Refs
Hedgehog Family				
SHH	Sonic Hedgehog	CGPGRGFGKR	Palmitoylated in cells and <i>in vitro</i>	S1,S2
IHH	Indian Hedgehog	CGPGRVVGSR	Palmitoylated <i>in vitro</i>	S1
DHH	Desert Hedgehog	CGPGRGPVGR	Likely to be palmitoylated	
MHC Class I/HLA Heavy Chain				
1C01	MHC-I/HLA heavy chain	CSHSMKYFFT		
1C02	"	CSHSMRYFYT		
1C05	"	CSHSMRYFYT		
1C06	"	CSHSMRYFDT		
1C07	"	CSHSMRYFDT		
1C08	"	CSHSMRYFYT		
1C012	"	CSHSMRYFYT		
1C014	"	CSHSMRYFST		
1C015	"	CSHSMRYFYT		
1C016	"	CSHSMRYFYT		
1C018	"	CSHSMRYFDT		
Interferons				
IFNA1	Interferon	CDLPETHSLD	IFNs are unlikely to be palmitoylated; N-terminal Cys is disulfide bonded to Cys-98	S3
IFNA2	"	CDLPQTHSLG		
IFNA4	"	CDLPQTHSLG		
IFNA7	"	CDLPQTHSLR		
IFNA8	"	CDLPQTHSLG		
IFN10	"	CDLPQTHSLG		
IFN14	"	CNLSQTHSLN		
IFN16	"	CDLPQTHSLG		
IFN17	"	CDLPQTHSLG		
IFN21	"	CDLPQTHSLG		

<u>Proteases/Protease Inhibitors</u>				
ELA2A	Elastase 2A proprotein	CGDPTYPPYV	N-terminal Cys is disulfide bonded to Cys-122 in mature protein	S4
ELA2B	Pancreatic elastase 2B	CGVSTYAPDM	"	
CTRL	Chymotrypsin-like protease	CGIPAIKPAL	"	
CTRB1	Chymotrypsinogen precursor	CGVPAIHPVL	"	
CTRB2	Chymotrypsinogen precursor	CGVPAIHPVL	"	
C1RL	Complement C1R	CPTRGSVLLA		
CPN2	Carboxypeptidase N subunit 2	CPMGCDCFVQ		
TIMP1	Tissue inhibitor of metalloproteases	CTCVPPHPQT	N-terminal Cys is disulfide bonded to Cys-70	S5, S6
TIMP3	Tissue inhibitor of metalloproteases	CTCSPSHPQD	"	
OVOS1	Ovostatin homolog 1; serine protease inhibitor	CVHMCMRDAL		
OTGLL	Otogelin (trypsin inhibitor)	CPYECLNGAF		
<u>Misc Receptors</u>				
GP126	G protein coupled receptor 126	CANCRVVLSN		
EMR4	G protein coupled receptor 127	CPPCPKYASC		
RTN4R	Nogo Receptor/Reticulon-4-Receptor	CPGACVCYNE	N-terminal Cys is disulfide bonded to Cys-33	S7
R4RL1	reticulon-4 receptor-like 1 precursor; Nogo Receptor	CPRDCVCYPA	"	
NTRK2	BDNF/NT-3, neurotrophic RPTK	CPTSCKCSAS	N-terminal Cys is disulfide bonded to Cys-7	S8
I12R1	Interleukin 12 receptor β 1	CRTSECCFQD		
IL21R	Interleukin-21 receptor isoform 2 precursor	CPDLVCYTDY		
NTRK3	neurotrophic tyrosine kinase NT-3 receptor	CPANCVCSKT		
FSHR	follicle stimulating hormone receptor	CHHRICHCSN		
I17RD	interleukin-17 receptor D precursor	CLNGSQLAVA		
CD244	natural killer cell receptor 2B4 isoform 3 precursor	CQGSADHVVS		
<u>Matrix/Adhesion proteins</u>				
MXRA5	matrix-remodeling-associated protein 5	CPHPCACYVP		
CHAD	chondroadherin precursor; cartilage matrix protein	CPQNCHCHSD		
DSC1	Desmocollin-1; desmosome adhesion	CQKVYLRVPS	Signal P does not predict	

			N-terminal Cys	
Miscellaneous				
FETUB	Fetuin B (serum prtn)	CGAMSPQQLA	Signal P does not predict N-terminal Cys	
CETP	cholesterol ester transfer protein	CSKGTSHVEAG	N-terminal Cys is free	S9
PHLD	Phospholipase D (GPI-specific)	CGLSTHVEIG		
SYNLE	Slit-1 homologue	CSSVCQLCTG		
SLIT1	SLIT-1	CPALCTCTGT		
SLIT3	SLIT-3	CPTKCTCSAA		
PERT	Thyroid peroxidase	CTEAFFPFIS		
VASN	vasorin precursor; Slit-like 2	CPSGCQCSQP		
NEU1	oxytocin-neurophysin 1 preproprotein	CYIQNCPLGG	N-term Cys is disulfide bonded to Cys-6	S10
NEU2	vasopressin-neurophysin preproprotein	CYFQNCPRGG	N-term Cys is disulfide bonded to Cys-6	"
DNS2A	deoxyribonuclease-2-alpha precursor	CYGDGQPVD		
CS041	SCRL- variant; izumo sperm-egg fusion protein	CLQCDPLVLE		
IZUM1	izumo sperm-egg fusion protein 1	CVICDPSVVL		
CO6	Complement component C6	CFCDHYAWTQ	N-term Cys is disulfide bonded to Cys-44	S11, S12
FGF7	FGF7	CNDMTPEQMA	N-term Cys is disulfide bonded to Cys-15	S13
BMP6	BMP6	CCGPPPLRPP	N-term is cleaved off	S14
TWSG1	twisted gastrulation protein homolog-1; regulates BMP signaling	CNKALCASDV		
STIM2	stromal interaction molecule 2; CRAC activation	CELVPRHLRG		
MCP	CD46 antigen, complement regulatory protein	CEEPPTFEAM	Not in rafts	S15
APOC4	Apolipoprotein C-IV	CQPEAQEGTL		
RAMP1	receptor activ-modifying prtnl	CQEANYGALL		
INHA	inhibin A alpha chain preproprotein	CQGLELAREL		
RGMA	repulsive guidance molecule A precursor	CKILKCNSEF		
Unknown function		* *		
LRFN2	leucine-rich repeat & FN type-III domain protein	CPKYCVCQNL	Contains a leucine-rich repeat Cysteine knot motif, CXXXC; N-term Cys is likely disulfide bonded to Cys +4	S16
LRFN4	leucine-rich repeat & FN type-III domain protein	CPLPCVCQNL	"	

LRC3B	leucine-rich repeat-containing protein 3B precursor	CPKGCLCSSS	"	
LRC38	leucine-rich repeat-containing protein 38	CPAGCACTDP	"	
ISLR	immunoglobulin superfamily leu-rich repeat variant	CPEPCDCGEK	"	
FLRT2	leucine-rich repeat transmembrane protein FLRT2	CPSVCRCDRN	"	
LRRC3	leucine-rich repeat-containing protein 3	CPQPCRCPDH	"	
LRRT2	leucine-rich repeat transmembrane neuronal protein 2	CPPKCRCEKL	"	
IGS10	immunoglobulin superfamily member 10	CPRRCACYMP		
IGSF6	immunoglobulin superfamily member 6	CTLSVTQPWY		
CCDC3	coiled-coil domain-containing protein 3 precursor	CQLPSEWRPL		
K0574	hypothetical protein	CQNAQLVNSL		
TMM95	transmembrane protein 95	CVFCRLPAHD		
LPLC3	long palate, lung and nasal epithelial carcinoma-assoc protein 3	CQELLETVGT		
T132A	unknown transmembrane protein	CGQAPLDPVY		

Supplemental Table Legend

Secreted proteins from the human genome that are predicted to contain an N-terminal Cys after signal sequence cleavage are listed. Proteins whose palmitoylation status has been confirmed or is likely are shaded in green. Proteins that are unlikely to be N-palmitoylated are shaded in red. See text for further details.

Supplemental References

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