



Product Information

Parathyroid hormone 1-34, human

Cat. No.: X23-12-YM700

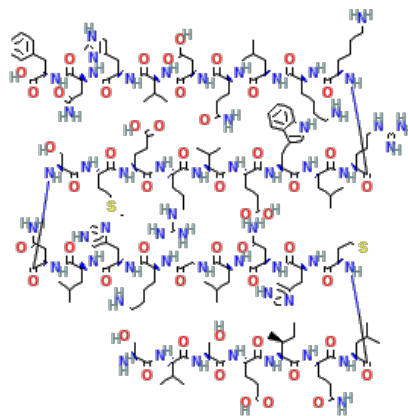
Size: 1 mg; 2 mg; 5 mg; 10 mg

CAS Number: 52232-67-4

Compound CID: 16133850

Synonym: 52232-67-4; Forteo; Parathar; Teriparatida; Teriparatidum

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Parathyroid Hormone 1-34, Human inhibits the signaling pathway between G-protein-coupled receptors (GPCRs) and G proteins.
Molecular Weight	4117.75
Molecular Formula	C ₁₈₁ H ₂₉₁ N ₅₅ O ₅₁ S ₂
IUPAC Name	(4S)-4-[[[(2S)-2-[[[(2S)-2-[[[(2S)-4-Amino-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-6-amino-2-[[[2-[[[(2S)-2-[[[(2S)-4-amino-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-5-amino-2-[[[(2S,3S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-amino-3-hydroxypropanoyl]amino]-3-methylbutanoyl]amino]-3-hydroxypropanoyl]amino]-4-carboxybutanoyl]amino]-3-methylpentanoyl]amino]-5-oxopentanoyl]amino]-4-methylpentanoyl]amino]-4-methylsulfanylbutanoyl]amino]-3-(1H-imidazol-4-yl)propanoyl]amino]-4-oxobutanoyl]amino]-4-methylpentanoyl]amino]acetyl]amino]hexanoyl]amino]-3-(1H-imidazol-4-yl)propanoyl]amino]-4-methylpentanoyl]amino]-4-oxobutanoyl]amino]-3-hydroxypropanoyl]amino]-4-methylsulfanylbutanoyl]amino]-5-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-6-amino-1-[[[(2S)-6-amino-1-[[[(2S)-1-[[[(2S)-5-amino-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-1-[[[(2S)-4-amino-1-[[[(1S)-1-carboxy-2-phenylethyl]amino]-1,4-dioxobutan-2-yl]amino]-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-3-carboxy-1-oxopropan-2-yl]amino]-1,5-dioxopentan-2-yl]amino]-4-methyl-1-oxopentan-2-yl]amino]-1-oxohexan-2-yl]amino]-1-oxohexan-2-yl]amino]-5-carbamimidamido-1-oxopentan-2-yl]amino]-4-methyl-1-oxopentan-2-yl]amino]-3-(1H-indol-3-yl)-1-oxopropan-2-yl]amino]-4-carboxy-1-oxobutan-2-yl]amino]-3-methyl-1-oxobutan-2-yl]amino]-5-carbamimidamido-1-oxopentan-2-yl]amino]-5-oxopentanoic acid



InChI	InChI=1S/C181H291N55O51S2/c1-21-96(18)146(236-160(267)114(48-53-141(250)251)212-174(281)132(84-239)232-177(284)143(93(12)13)233-147(254)103(185)82-237)178(285)216-111(45-50-134(187)241)155(262)219-119(65-90(6)7)163(270)213-116(55-62-289-20)158(265)224-124(71-100-79-196-86-203-100)167(274)226-126(73-135(188)242)169(276)217-117(63-88(2)3)148(255)201-81-138(245)205-105(39-27-30-56-182)149(256)223-123(70-99-78-195-85-202-99)166(273)221-121(67-92(10)11)164(271)225-128(75-137(190)244)171(278)231-131(83-238)173(280)214-115(54-61-288-19)157(264)210-112(46-51-139(246)247)153(260)208-109(43-34-60-199-181(193)194)159(266)234-144(94(14)15)175(282)215-113(47-52-140(248)249)156(263)222-122(69-98-77-200-104-38-26-25-37-102(98)104)165(272)220-120(66-91(8)9)161(268)209-108(42-33-59-198-180(191)192)151(258)206-106(40-28-31-57-183)150(257)207-107(41-29-32-58-184)152(259)218-118(64-89(4)5)162(269)211-110(44-49-133(186)240)154(261)228-129(76-142(252)253)172(279)235-145(95(16)17)176(283)229-125(72-101-80-197-87-204-101)168(275)227-127(74-136(189)243)170(277)230-130(179(286)287)68-97-35-23-22-24-36-97/h22-26,35-38,77-80,85-96,103,105-132,143-146,200,237-239H,21,27-34,39-76,81-84,182-185H2,1-20H3,(H2,186,240)(H2,187,241)(H2,188,242)(H2,189,243)(H2,190,244)(H,195,202)(H,196,203)(H,197,204)(H,201,255)(H,205,245)(H,206,258)(H,207,257)(H,208,260)(H,209,268)(H,210,264)(H,211,269)(H,212,281)(H,213,270)(H,214,280)(H,215,282)(H,216,285)(H,217,276)(H,218,259)(H,219,262)(H,220,272)(H,221,273)(H,222,263)(H,223,256)(H,224,265)(H,225,271)(H,226,274)(H,227,275)(H,228,261)(H,229,283)(H,230,277)(H,231,278)(H,232,284)(H,233,254)(H,234,266)(H,235,279)(H,236,267)(H,246,247)(H,248,249)(H,250,251)(H,252,253)(H,286,287)(H4,191,192,198)(H4,193,194,199)/t96-,103-,105-,106-,107-,108-,109-,110-,111-,112-,113-,114-,115-,116-,117-,118-,119-,120-,121-,122-,123-,124-,125-,126-,127-,128-,129-,130-,131-,132-,143-,144-,145-,146-/m0/s1
InChI Key	OGBMKVWORPGQRR-UMXFMPSGSA-N
Canonical SMILES	<chem>CCC(C)C(C(=O)NC(CCC(=O)N)C(=O)NC(CC(C)C)C(=O)NC(CCSC)C(=O)NC(CC1=CNC=N1)C(=O)NC(CC(=O)N)C(=O)NC(CC(C)C)C(=O)NCC(=O)NC(CCCCN)C(=O)NC(CC2=CNC=N2)C(=O)NC(C(C)C)C(=O)NC(CC(=O)N)C(=O)NC(CO)C(=O)NC(CCSC)C(=O)NC(CCC(=O)O)C(=O)NC(CCCNC(=N)N)C(=O)NC(C(C)C)C(=O)NC(CCC(=O)O)C(=O)NC(CC3=CNC4=CC=CC=C43)C(=O)NC(CC(C)C)C(=O)NC(CCCNC(=N)N)C(=O)NC(CCCCN)C(=O)NC(CCCCN)C(=O)NC(CC(C)C)C(=O)NC(CC(C(=O)N)C(=O)NC(CC(=O)O)C(=O)NC(C(C)C)C(=O)NC(CC5=CNC=N5)C(=O)NC(CC(=O)N)C(=O)NC(CC6=CC=CC=C6)C(=O)O)NC(=O)C(CCC(=O)O)NC(=O)C(CO)NC(=O)C(C(C)C)NC(=O)C(CO)N</chem>
Isomeric SMILES	<chem>CC[C@H](C)[C@@H](C(=O)N[C@@H](CCC(=O)N)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCSC)C(=O)N[C@@H](CC1=CNC=N1)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CCCN)C(=O)N[C@@H](CC2=CNC=N2)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CO)C(=O)N[C@@H](CCSC)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](CCCNC(=N)N)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CCC(=O)O)C(=O)N[C@@H](CC3=CNC4=CC=CC=C43)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCCNC(=N)N)C(=O)N[C@@H](CCCN)C(=O)N[C@@H](CCCN)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCC(=O)N)C(=O)N[C@@H](CC(=O)O)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC5=CNC=N5)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CC6=CC=CC=C6)C(=O)O)NC(=O)[C@H](CCC(=O)O)NC(=O)[C@H](CO)NC(=O)[C@H](C(C)C)NC(=O)[C@H](CO)N</chem>



Form	Lyophilized powder
Purity	>98%
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Parathyroid hormone 1-34, human can be studied for its effect on stimulating bone formation, increasing bone mineral density, and improving bone strength.
Storage	Store at -20°C, and keep desiccated.
