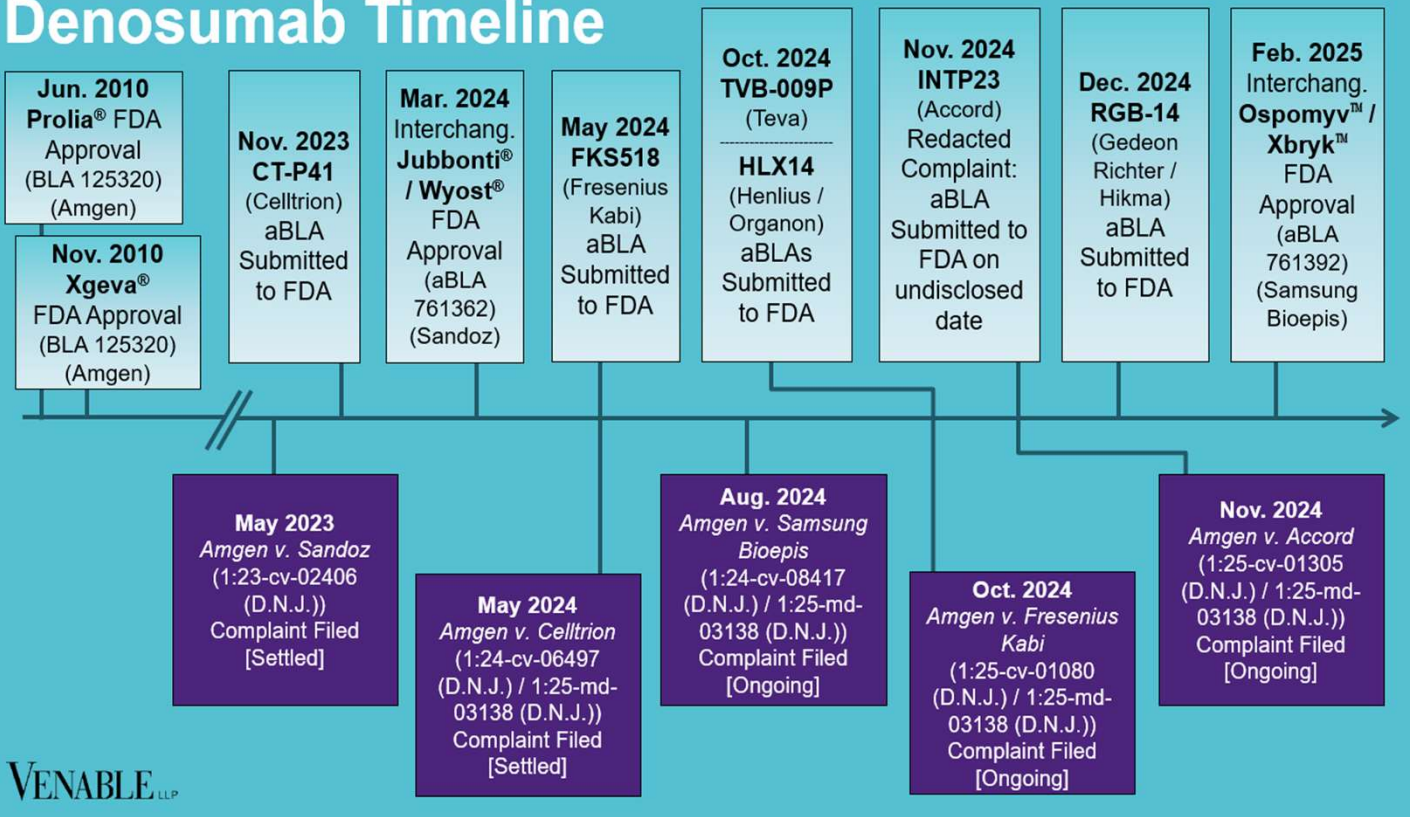
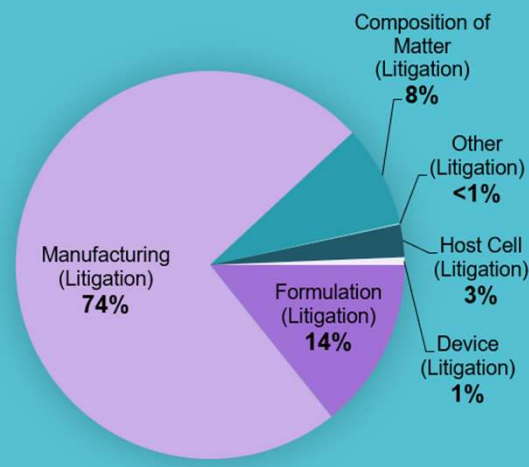


Technology: Denosumab is a human monoclonal antibody that binds to the RANKL protein on osteoclasts (cells that break down bone), inhibiting their formation, function, and survival, which regulates bone turnover by slowing bone resorption.

Denosumab Timeline



Denosumab Challenged Claim Types in Litigation*



*Litigation Defendants alleged to infringe at least these claims in complaints/amended complaints.

Spotlight On:
Denosumab

February 28, 2025

	<i>Amgen v. Sandoz</i> 1:23-cv-02406 (D.N.J.) Settled	<i>Amgen v. Celltrion</i> 1:24-cv-06497 (D.N.J.) / MDL 1:25-md-03138 (D.N.J.) Settled	<i>Amgen v. Samsung Bioepis</i> 1:24-cv-08417 (D.N.J.) / MDL 1:25-md-03138 (D.N.J.) Ongoing	<i>Amgen v. Fresenius Kabi</i> 1:25-cv-01080 (D.N.J.) (transferred from 1:24-cv- 09555 (N.D. Ill.) / MDL 1:25- md-03138 (D.N.J.) Ongoing	<i>Amgen v. Accord</i> 1:25-cv-01305 (D.N.J.) (transferred from 5:24-cv- 00642 (E.D.N.C.)) / MDL 1:25- md-03138 (D.N.J.) Ongoing
7,364,736	x	x	x	x	x
7,427,659		x			
7,662,930					x
7,888,101			x	x	x
7,928,205	x	x	x	x	x
8,053,236		x		x	x
8,058,418	x		x	x	x
8,247,210			x		
8,460,896		x	x	x	x
8,680,248		x	x	x	x
9,012,178	x	x	x	x	x
9,133,493	x				x
9,228,168	x	x		x	x
9,320,816	x	x	x	x	x
9,328,134	x	x	x	x	x
9,359,435	x	x	x	x	x
9,388,447					x
9,481,901	x		x		
10,106,829		x	x	x	x
10,167,492	x	x	x	x	x
10,227,627		x	x	x	x
10,421,987			x		
10,513,723	x	x	x	x	x
10,583,397	x	x	x	x	x
10,655,156			x	x	x

Spotlight On:
Denosumab

February 28, 2025

	<i>Amgen v. Sandoz</i> 1:23-cv-02406 (D.N.J.) Settled	<i>Amgen v. Celltrion</i> 1:24-cv-06497 (D.N.J.) / MDL 1:25-md-03138 (D.N.J.) Settled	<i>Amgen v. Samsung Bioepis</i> 1:24-cv-08417 (D.N.J.) / MDL 1:25-md-03138 (D.N.J.) Ongoing	<i>Amgen v. Fresenius Kabi</i> 1:25-cv-01080 (D.N.J.) (transferred from 1:24-cv- 09555 (N.D. Ill.)) / MDL 1:25- md-03138 (D.N.J.) Ongoing	<i>Amgen v. Accord</i> 1:25-cv-01305 (D.N.J.) (transferred from 5:24-cv- 00642 (E.D.N.C.)) / MDL 1:25- md-03138 (D.N.J.) Ongoing
10,822,630	x	x	x	x	x
10,894,972	x	x	x	x	x
10,907,186			x		
11,077,404	x	x		x	x
11,098,079	x	x	x	x	x
11,130,980	x	x	x	x	x
11,254,963	x	x	x	x	x
11,292,829			x		
11,299,760	x	x	x	x	x
11,319,568		x		x	x
11,384,378			x		
11,427,848			x		
11,434,514	x	x	x	x	x
11,459,595		x		x	x
11,486,883		x			
11,634,476			x		
11,685,772			x		
11,744,950			x	x	
11,786,866				x	
11,946,085		x	x	x	x
11,952,605		x		x	x
12,084,686				x	x