

Intermediate

No.	Intermediates	CAS No.	Formula	Product	Step
1	Morphinone dicarbamate		$C_{22}H_{23}NO_7$	Naltrexone. HCl	N-6
				Naloxone. HCl	N-6
				Oxymorphone. HCl	N-6
				Oxycodone. HCl	N-7
2	14-Hydroxy morphinone dicarbamate		$C_{22}H_{23}NO_8$	Naltrexone. HCl	N-4
				Naloxone. HCl	N-4
				Oxymorphone. HCl	N-4
				Oxycodone. HCl	N-5
3	14-Hydroxy dihydro morphinone dicarbamate		$C_{22}H_{25}NO_8$	Naltrexone. HCl	N-3
				Naloxone. HCl	N-3
				Oxymorphone. HCl	N-3
				Oxycodone. HCl	N-4
4	Naltrexone base	16590-41-3	$C_{20}H_{23}NO_4$	Naltrexone. HCl	N-1
5	Naloxone base	465-65-6	$C_{19}H_{21}NO_4$	Naloxone. HCl	N-1
6	Oxymorphone	76-41-5	$C_{17}H_{19}NO_4$	Oxymorphone. HCl	N-1
7	Oxycodone	76-42-6	$C_{18}H_{21}NO_4$	Oxycodone. HCl	N-1
8	Codeinone	467-13-0	$C_{18}H_{19}NO_3$	Oxycodone. HCl	N-5
9	14-Hydroxy codeinone		$C_{18}H_{19}NO_4$	Oxycodone. HCl	N-2
10	Thevinone	15358-22-2	$C_{23}H_{27}NO_4$	Buprenorphine. HCl	N-7
11	Dihydro Thevinone	16196-82-0	$C_{23}H_{29}NO_4$	Buprenorphine. HCl	N-6
12	Thevinol		$C_{27}H_{39}NO_4$	Buprenorphine. HCl	N-5
13	3-O-methyl norbuprenorphine		$C_{26}H_{37}NO_4$	Buprenorphine. HCl	N-3
14	Norbuprenorphine	78715-23-8	$C_{25}H_{35}NO_4$	Buprenorphine. HCl	N-2
15	Buprenorphine base	52485-79-7	$C_{29}H_{41}NO_4$	Buprenorphine. HCl	N-1
16	Dihydro codeine	125-28-0	$C_{18}H_{23}NO_3$	Dihydrocodeine phosphate	N-1
17	Hydrocodone	125-29-1	$C_{18}H_{21}NO_4$	Hydrocodone bitartrate	N-1
18	Noroxymorphone	33522-95-1	$C_{16}H_{17}NO_4$	Naltrexone.HCl	N-2
				Naloxone.HCl	N-2