

Product Name	: NKTR-181
Synonyms	: NKTR 181; NKTR181; Loxicodegol
Cat No.	: M10788
CAS Number	: 1211231-76-3
Molecular Formula	: C ₃₁ H ₄₉ NO ₁₀
Formula Weight	: 595.73
Chemical Name	: (4R,4aS,7S,7aR,12bS)-7-((2,5,8,11,14,17-hexaoxonadecan-19-yl)oxy)-9-methoxy-3-methyl-1,2,3,4,5,6,7,7a-octahydro-4aH-4,12-methanobenzofuro[3,2-e]isoquinolin-4a-ol
Description	: A novel, long-acting and orally active, selective mu-opioid agonist that displays higher binding affinity (K _i =237 nM) at the MOR than kappa and delta opioid receptors (>100-fold); demonstrates maximum analgesic activity comparable to that of oxycodone in hot-plate latency and acetic-acid writhing models, reduces its rate of entry across the blood-brain barrier compared with traditional mu-opioid agonists. Pain Phase 3 Clinical
Pathway	: Endocrinology/Hormones
Target	: Opioid Receptor
Receptor	: Opioid Receptor
Solubility	: —
SMILES	: <chem>OC[C@]1([C@H](N(C)CC2)C3)[C@@]42C5=C3C=CC(OC)=C5O[C@H]4[C@@H](OCCOCCOCCOCCOCCOCCOC)CC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Miyazaki T, et al. J Pharmacol Exp Ther. 2017 Oct;363(1):104-113. | 2. Webster L, et al. Pain Med. 2017 Mar 10. doi: 10.1093/pm/pnw344.