Product Data Sheet

Product Name: Alvimopan

CAS No.: 156053-89-3

Cat. No.: HY-13243

MWT: 424.53

Formula: C25H32N2O4

Purity: >98%

Solubility: DMSO

Mechanisms:
Pathways: GPCR/G protein; Target: Opioid Receptor
Pathways: Neuronal Signaling; Target: Opioid Receptor

Biological Activity:
Alvimopan (LY 246736; ADL 8-2698) is a peripherally acting mu-opioid receptor (PAM-OR, IC50= 1.7 nM) antagonist for accelerating gastrointestinal recovery after surgery.

IC50 Value: 1.7 nM (Mu-type opioid receptor) [1]

Target: mu-opioid receptor

in vitro: The dissociation rate of alvimopan from the micro opioid receptor (t(1/2)=30--44 min) was comparable to that of the long acting partial agonist buprenorphine (t(1/2)=44 min), but was slower than those of the antagonists naloxone (t(1/2)=0.82 min) and N-methylaltrexone (t(1/2)=0.46 min) [2].

in vivo: Alvimopan did not significantly accelerate GI-3 compared with placebo [6 mg: hazard ratio (HR) = 1.20, p = 0.080; 12 mg: HR = 1.24, p = 0.038]. However, after adjustment for significant covariates (sex/surgical duration), benefits were significant for both doses (6 mg: HR = 1.24, p = 0.037; 12 mg: HR = 1.26, p = 0.028)....

References:
[1]. NCBI BioAssay: 325959

Caution: Not fully tested. For research purposes only

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