Product Name: Almorexant
CAS No.: 871224-64-5
Cat. No.: HY-10805
MWt.: 512.56
Formula: C29H31F3N2O3
Purity: >98%
Solubility: DMSO

Mechanisms:
Pathways: GPCR/G protein; Target: OX Receptor

Biological Activity:
Almorexant (ACT078573) is a potent and competitive dual orexin 1 receptor (OX1)/orexin 2 receptor (OX2) antagonist with Ki values of 1.3 and 0.17 nM for OX1 and OX2, respectively. IC50 value: 1.3/0.7 nM (OX1/OX2 receptor) [1] [2]
Target: Dual OX1/OX2 receptor
in vitro: [(3)H]Almorexant bound to a single saturable site on hOX(1) and hOX(2) with high affinity (K(d) of 1.3 and 0.17 nM, respectively. In Schild analyses using the [(3)H]inositol phosphates assay, almorexant acted as a competitive antagonist at hOX(1) and as a noncompetitive-like antagonist at hOX(2). In binding kinetic analyses, [(3)H]Almorexant had fast association and dissociation rates at hOX(1), whereas it had a fast association rate and a remarkably slow dissociation rate at hOX(2) [1].

in vivo: During the 12-h dark period after dosing, ALM (Almorexant) exacerbated cataplexy in TG mice and increased no...

References:

Caution: Not fully tested. For research purposes only
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