**Product Data Sheet**

**Product Name:** LY2795050  
**CAS No.:** 1346133-08-1  
**Cat. No.:** HY-15708  
**MWt:** 407.89  
**Formula:** C23H22ClN3O2  
**Purity:** >98%  
**Solubility:** DMSO

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

**Biological Activity:**
LY2795050 is a novel selective κ-opioid Receptor (KOR) antagonist (IC50=0.72 nM) and has the potential as a PET tracer to image KOR in vivo.

IC50 Value: 0.72 nM (κ-opioid Receptor); 25.8 nM (κ-opioid) [1]

Target: κ-opioid Receptor  
in vitro: LY2795050 displays full antagonist activity and high binding affinity and selectivity for KOR with a ki value of 0.72 nM [1].

in vivo: In the brain, (11)C-LY2795050 displayed fast uptake kinetics (regional activity peak times of <20 min) and an uptake pattern consistent with the distribution of KOR in primates [1]. The LY2795050 ED50 at MOR was 119 μg/kg based on a 1-site model for 11C-carfentanil. The 1-site binding model was also deemed sufficient to describe the specific binding of 11C-LY2795050 at KOR. The ED50 at KOR estimated from the 1-site model was 15.6 μg/kg. Thus, the ED50 ratio for MOR:KOR was 7.6 [2]...

**References:**

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**Caution:** Not fully tested. For research purposes only

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