Product Information

TCS-OX2-29
Item No. 17419

CAS Registry No.: 1610882-30-8
Formal Name: (2S)-1-(3,4-dihydro-6,7-dimethoxy-2(1H)-isoquinolinyl)-3,3-dimethyl-2-[(4-pyridinylmethyl)(amino)-1-butanone, monohydrochloride
MF: C_{23}H_{31}N_{3}O_{3}\cdot HCl
FW: 434.0
Purity: >98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
Special Conditions: Light sensitive, etc.
UV/Vis.: λ\text{max}=286\text{ nm}

Laboratory Procedures

For long term storage, we suggest that TCS-OX2-29 be stored as supplied at -20°C. It should be stable for at least two years.

TCS-OX2-29 is supplied as a crystalline solid. A stock solution may be made by dissolving the TCS-OX2-29 in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of TCS-OX2-29 in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of TCS-OX2-29 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of TCS-OX2-29 in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Orexin receptors R1 (OX1R) and OX2R mediate the action of the neuropeptides orexin A and orexin B. TCX-OX2-29 is an antagonist of OX2R (pKi = 7.5) that exhibits >250-fold selectivity for hOX2R compared with hOX1R (IC_{50}=40\text{ nM} and >10,000\text{ nM}, respectively).\textsuperscript{1,2} It blocks the inhibitory action of orexin A on forskolin-induced cAMP formation.\textsuperscript{3}

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17419

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.