Product Data Sheet

Chemical Properties

Product Name: AM630
Cas No.: 164178-33-0
M.Wt: 504.36
Formula: C23H25IN2O3
Synonyms: AM 630; AM-630
Chemical Name: [6-iodo-2-methyl-1-(2-morpholin-4-yethyl)indol-3-yl]-(4-methoxyphenyl)methanone
Canonical SMILES: CC1=C(C2=C(N1CCN3CCOCC3)C=C(C=C2)I)C(=O)C4=CC=C(C=C4)OC
Solubility: ≥25.2mg/mL in DMSO
Storage: Store at -20°C
General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: GPCR/G protein
Pathways: Cannabinoid Receptor
Description:

AM630 is a selective and competitive antagonist of cannabinoid receptors with Ki values of 5 μM and 31.2 nM for CB1 receptor and CB2 receptor, respectively [1]. In CB1-transfected CHO cells, AM630 significantly inhibited the production of cAMP stimulated by forskolin. In CB2-transfected cells, AM630 promoted forskolin to stimulate cyclic AMP production with EC50 value of 230.4 nM. AM630 also exerted to have inhibitory effect on the binding of GTPyS to membranes from CB2-transfected cells. Besides that, AM630 was found to activate the
TRPA1 channels and subsequently desensitizing TRPA1 and TRPV1 channels in TG sensory neurons. Moreover, AM630 significantly weakened the thermal hyperalgesia induced by CAP (capsaicin) in WT mice [1, 2].

**Reference:**

**Caution**

FOR RESEARCH PURPOSES ONLY. 

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.