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DATASHEET

XAP044

Product overview

Name XAP044
Cat No HB1599
Biological action Antagonist
Purity >98%

Description Novel, selective mGlu₇ antagonist

Biological Data

Biological description Novel, selective mGlu₇ receptor antagonist. Shows novel molecular mode of pharmacological action.

Acts as an orthosteric like antagonist and binds at a binding pocket in the Venus flytrap domain. Inhibits long term potentiation (LTP) in the lateral amygdala in a $mGlu_7$ dependent manner (IC₅₀ = 88 nM). Shows anti-stress, anxiolytic and anti-depressant actions. Blood-brain barrier permeable.

Solubility & Handling

Solubility overview Soluble in DMSO (100mM) and in ethanol (20mM)

Storage instructions -20°C

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name 7-Hydroxy-3-(4-iodophenoxy)-4*H*-1-benzopyran-4-one

Molecular Weight 380.13
Chemical structure

HOOO

Molecular Formula $C_{15}H_9IO_4$ CAS Number196928-50-4PubChem identifier5428913

SMILES C1=CC(=CC=C1OC2=COC3=C(C2=O)C=CC(=C3)O)I

InChi InChi=1S/C15H9IO4/c16-9-1-4-11(5-2-9)20-14-8-19-13-7-10(17)3-6-12(13)15(14)18/h1-8,17H

InChiKey XXZKJJYWINSUMJ-UHFFFAOYSA-N

MDL number MFCD00525548

References

Blocking metabotropic glutamate receptor subtype 7 (mGlu7) via the Venus flytrap domain (VFTD) inhibits amygdala plasticity, stress, and anxiety-related behavior.

Gee CE et al (2014) J Biol Chem 289(16)