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DATASHEET

XAP044

Product overview

Name	XAP044
Cat No	HB1599
Biological action	Antagonist
Purity	>98%
Description	Novel, selective mGlu ₇ antagonist

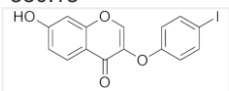
Biological Data

Biological description	Novel, selective mGlu ₇ 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 (IC ₅₀ = 88 nM). Shows anti-stress, anxiolytic and anti-depressant actions. Blood-brain barrier permeable.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM) and in ethanol (20mM)
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)-4H-1-benzopyran-4-one
Molecular Weight	380.13
Chemical structure	
Molecular Formula	C ₁₅ H ₉ IO ₄
CAS Number	196928-50-4
PubChem identifier	5428913
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)

PubMedID [24596089](https://pubmed.ncbi.nlm.nih.gov/24596089/)

