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DATASHEET

BPAM344

Product overview

Name	BPAM344
Cat No	HB19154
Alternative names	BPAM
Biological action	PAM
Purity	>98%
Description	GluK2 kainate receptor positive allosteric modulator

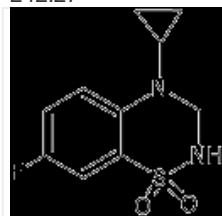
Biological Data

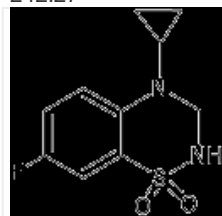
Biological description	GluK2 kainate receptor positive allosteric modulator (PAM) (EC ₅₀ values for potentiating the response of 100 μ M kainate are 26.3 μ M for GluK1, 75.4 μ M for GluK2 and 639 μ M for GluK3 respectively). BPAM344 stabilizes GluK2 in the closed state, inhibits kainate receptor desensitization and prolongs activation.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM)
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	4-Cyclopropyl-3,4-dihydro-7-fluoro-2H-1,2,4-benzothiadiazine 1,1-dioxide
Molecular Weight	242.27
Chemical structure	



Molecular Formula	C ₁₀ H ₁₁ FN ₂ O ₂ S
CAS Number	1204572-55-3
PubChem identifier	67531324
SMILES	FC1=CC=C(C2=C1)N(C3CC3)CNS2(=O)=O
Source	Synthetic
InChi	1S/C10H11FN2O2S/c11-7-1-4-9-10(5-7)16(14,15)12-6-13(9)8-2-3-8/h1,4-5,8,12H,2-3,6H2
InChiKey	FLTMTBPCYAZIKM-UHFFFAOYSA-N
Appearance	White to off-white solid

References

The positive allosteric modulator BPAM344 and L-glutamate introduce an active-like structure of the ligand-binding domain of GluK2.

Bay Y et al (2024) FEBS letters 598

PubMedID [38369668](#)

Small-molecule positive allosteric modulation of homomeric kainate receptors GluK1-3: development of screening assays and insight into GluK3 structure.

Bay Y et al (2024) The FEBS journal 291

PubMedID [38145505](#)
