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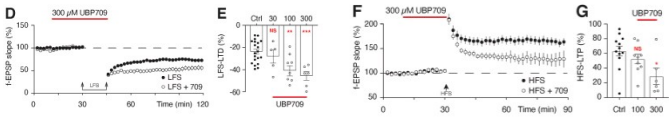
DATASHEET

UBP709

Product overview

Name	UBP709
Cat No	HB9204
Alternative names	Compound 19c
Biological action	PAM
Purity	>98%
Description	NMDAR pan-PAM that potentiates all GluN2 subunits. Enhances LTD and decreases LTP.

Images



Biological Data

Biological description	NMDAR pan-PAM that potentiates all GluN2 subunits. First reported NMDAR PAM to enhance LTD and decrease LTP: in P14 hippocampal slices, the pan-PAM UBP709 potentiates the induction of LTD and reduces induction of LTP in a concentration-dependent manner. UBP709 also permits induction of LTD by 10 Hz stimulation, dependent on co-activation of GluN2B containing NMDARs and mGluRs.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
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	9-butylphenanthrene-3-carboxylic acid
Molecular Weight	278.35
Chemical structure	
Molecular Formula	$C_{19}H_{18}O_2$
PubChem identifier	88563705
SMILES	CCCCC1=CC2=C(C=C(C=C2)C(=O)O)C3=CC=CC=C31
InChi	InChI=1S/C19H18O2/c1-2-3-6-13-11-14-9-10-15(19(20)21)12-18(14)17-8-5-4-7-16(13)17/h4-5,7-12H,2-3,6H2,1H3,(H,20,21)
InChiKey	RPHNFYJPUJYHFP-UHFFFAOYSA-N

Appearance	White solid

References

Differential regulation of STP, LTP and LTD by structurally diverse NMDA receptor subunit-specific positive allosteric modulators

France et al (2022) Neuropharmacology 202:108840
PubMedID 34678377

Synthesis of a Series of Novel 3,9-Disubstituted Phenanthrenes as Analogues of Known NMDA Receptor Allosteric Modulators

Irvine et al (2015) Synthesis (Stuttg) .
PubMedID 26568642