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## DATASHEET

UBP714 ammonium salt

### Product overview

<b>Name</b>	UBP714 ammonium salt
<b>Cat No</b>	HB8161
<b>Alternative names</b>	UBP-714, UBP 714
<b>Biological action</b>	PAM
<b>Purity</b>	>98%
<b>Description</b>	NMDAR PAM which potentiates GluN2A and GluN2B with minimal effects on 2C and 2D.

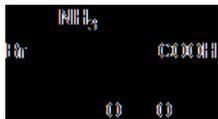
### Biological Data

<b>Biological description</b>	NMDAR PAM which potentiates GluN2A and GluN2B NMDAR subunits with minimal effects on GluN2C and GluN2D.  Potentiates NMDAR mediated fEPSPs (field excitatory postsynaptic potentials) but not AMPAR mediated fEPSPs in the CA1 region of the hippocampus. Potentiates sub-maximal LTP and reduces LTD.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water (50 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	6-Bromo-4-methyl-2-oxo-2H-1-benzopyran-3-carboxylic acid ammonium salt
<b>Molecular Weight</b>	283.07
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>7</sub> BrO <sub>4</sub> .NH <sub>3</sub>
<b>CAS Number</b>	773109-55-0
<b>PubChem identifier</b>	56650009
<b>SMILES</b>	CC1=C(C(=O)OC2=C1C=C(C=C2)Br)C(=O)O
<b>InChi</b>	InChI=1S/C11H7BrO4/c1-5-7-4-6(12)-3-8(7)-16-11(15)9(5)10(13)14/h2-4H,1H3,(H,13,14)
<b>InChiKey</b>	BWBWVUJRXNIUMA-UHFFFAOYSA-N
<b>Appearance</b>	Off-white solid

### References

Coumarin-3-carboxylic acid derivatives as potentiators and inhibitors of recombinant and native N-methyl-D-aspartate receptors

Irvine et al (2012) Neurochem Int. 61(4)

**PubMedID** [22265875](#)

### **Positive and Negative Allosteric Modulators of N-Methyl-d-aspartate (NMDA) Receptors: Structure-Activity Relationships and Mechanisms of Action**

Burnell et al (2019) J Med Chem. 62(1)

**PubMedID** [29446949](#)

### **Mechanism and properties of positive allosteric modulation of N-methyl-d-aspartate receptors by 6-alkyl 2-naphthoic acid derivatives**

Sapkota et al (2017) Neuropharmacology 125:

**PubMedID** [28709671](#)

### **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](#)

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