

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



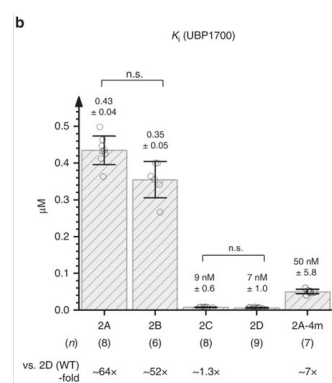
## DATASHEET

UBP1700

### Product overview

Name	UBP1700
Cat No	HB8172
Alternative names	UBP 1700
Biological action	Antagonist
Purity	>95%
Description	Highly potent, selective GluN2C/2D NMDAR antagonist

### Images



### Biological Data

#### Biological description

Highly potent and selective GluN2C/2D NMDAR antagonist ( $K_i$  values are 9 nM and 7 nM at GluN2C and GluN2D respectively). **PPDA** derivative. UBP1700 is one of the most potent GluN2 antagonists reported to date which shows ~50 to 60 fold selectivity for GluN2C/2D over GluN2A and ~40 to 50 fold selectivity for GluN2C/2D over GluN2B subunits. UBP1700 displays similar selectivity for GluN2C/2D as **QNZ46** and **DQP-1105** but has higher potency, thus is likely to inhibit receptors more effectively than these compounds where Glu2D-containing NMDARs are located (e.g. peri- and extrasynaptic spaces).

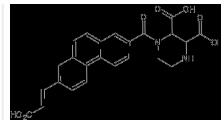
### Solubility & Handling

#### Storage instructions Solubility overview Important

Room temperature  
Soluble in DMSO (100 mM), in water with 1eq NaOH (50 mM) and in basic aqueous buffer (50 mM)  
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	3-{8-[(E)-2-carboxyethenyl]naphthoyl}piperazine-2,3-dicarboxylic acid
Molecular Weight	448.4248
Chemical structure	



**Molecular Formula**

C<sub>24</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>

**SMILES**

O=C(c2cc3ccc1cc(/C=C/C(=O)O)ccc1c3cc2)N4CCNC(C(=O)O)C4C(=O)O

**InChi**

InChI=1S/C24H20N2O7/c27-19(28)8-2-13-1-6-17-14(11-13)3-4-15-12-16(5-7-18(15)17)22(29)26-10-9-25-20(23(30)31)21(26)24(32)33/h1-8,11-12,20-21,25H,9-10H2,(H,27,28)(H,30,31)(H,32,33)/b8-2+

**InChiKey**

INDGTGVUFQRYLI-KRXBUXKQSA-N

**Appearance**

Off-white solid

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## References

**Structural basis of subtype-selective competitive antagonism for GluN2C/2D-containing NMDA receptors.**

Wang JX et al (2020) Nature communications 11

**PubMedID**

[31969570](#)

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