

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

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

customercare-usa@hellobio.com



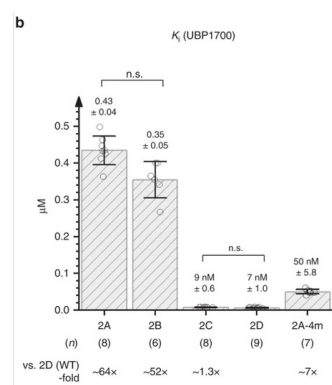
## DATASHEET

UBP1700

### Product overview

<b>Name</b>	UBP1700
<b>Cat No</b>	HB8172
<b>Alternative names</b>	UBP 1700
<b>Biological action</b>	Antagonist
<b>Purity</b>	>95%
<b>Description</b>	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

Room temperature

#### Solubility overview

Soluble in DMSO (100 mM), in water with 1eq NaOH (50 mM) and in basic aqueous buffer (50 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

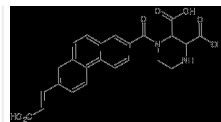
3-{8-[(E)-2-carboxyethenyl]naphthoyl}piperazine-2,3-dicarboxylic acid

#### 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

---

## References

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

Wang JX et al (2020) Nature communications 11

**PubMedID**

[31969570](#)

---