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DATASHEET

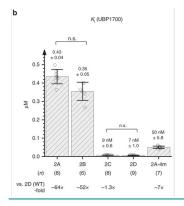
UBP1700

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

Solubility overview Storage instructions Storage of solutions Soluble in DMSO (100 mM), in water with 1eq NaOH (50 mM) and in basic aqueous buffer (50 mM) Room temperature

Shipping Conditions Important

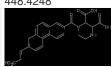
Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use. Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Molecular Weight Chemical structure $3\mbox{-}\{8\mbox{-}[(E)\mbox{-}2\mbox{-}carboxyethenyl]]naphthoyl}\mbox{piperazine-2,3-dicarboxylic acid}$ 448.4248



Molecular Formula SMILES

InChi

 $C_{24}H_{20}N_2O_7$

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

$$\begin{split} & \ln \text{Chl} = 1\text{S/C24H20N2O7/c27-19(28)8-2-13-1-6-17-14(11-13)3-4-15-12-16(5-7-18(15)17)22(29)26-10} \\ & -9-25-20(23(30)31)21(26)24(32)33/\text{h1-8,11-12,20-21,25H,9-10H2,(H,27,28)(H,30,31)(H,32,33)/b8-2} \end{split}$$

+

InChiKey Appearance INDGTGVUFQRYLI-KRXBUXKQSA-N

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