

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

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

customercare-usa@m2stage.hellobio.com



DATASHEET

DL-AP4

Product overview

Name	DL-AP4
Cat No	HB0249
Alternative names	2-amino-4-phosphonobutyrate; 2APB
Biological action	Antagonist
Purity	>98%
Customer comments	<i>Great Price! We are using this (DL-AP4) to block transmission through the ON-pathway in retinal bipolar cells; it seems to work well, and the price is great! Verified customer, Washington State University</i>

Description	Broad spectrum glutamate antagonist
-------------	-------------------------------------

Images



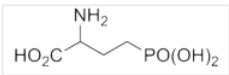
Biological Data

Biological description	Broad spectrum glutamate antagonist. Produces depolarizing responses in the cerebral cortex for a short time period after quisqualate application.
------------------------	--

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (33mM)

Chemical Data

Chemical name	DL-2-Amino-4-phosphonobutyric acid
Molecular Weight	183.1
Chemical structure	
Molecular Formula	C ₄ H ₁₀ NO ₅ P
CAS Number	6323-99-5
PubChem identifier	2207

Chemical name	DL-2-Amino-4-phosphonobutyric acid
SMILES	<chem>C(CP(=O)(O)O)C(C(=O)O)N</chem>
Source	Synthetic
InChi	InChI=1S/C4H10NO5P/c5-3(4(6)7)1-2-11(8,9)10/h3H,1-2,5H2,(H,6,7)(H2,8,9,10)
InChiKey	DDOQBQRIEWHWBT-UHFFFAOYSA-N
MDL number	MFCD00013999
Appearance	White solid

References

Antagonism of excitatory amino acid-induced responses and of synaptic excitation in the isolated spinal cord of the frog.

Evans RH *et al* (1979) Br J Pharmacol 67(4)

PubMedID [316343](#)

The effects of a series of omega-phosphonic alpha-carboxylic amino acids on electrically evoked and excitant amino acid-induced responses in isolated spinal cord preparations.

Evans RH *et al* (1982) Br J Pharmacol 75(1)

PubMedID [7042024](#)

Anion transport blockers inhibit DL-2-amino-4-phosphonobutyrate responses induced by quisqualate in the rat cerebral cortex.

Turner JP (1993) Br J Pharmacol 109(2)

PubMedID [7689393](#)
