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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



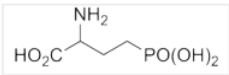
Biological Data

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

Solubility overview	Soluble in water (33mM)
Storage instructions	Room temperature
Storage of solutions	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.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.

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
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	MFC00013999
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](#)
