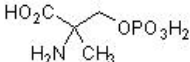


Product datasheet

MSOP, group III metabotropic glutamate receptor antagonist ab141381

[1 Image](#)

Overview

Product name	MSOP, group III metabotropic glutamate receptor antagonist
Description	Potent, selective group III metabotropic glutamate receptor antagonist
Biological description	<p>Potent, selective group III metabotropic glutamate receptor antagonist. Selective inhibition for L-AP4-sensitive presynaptic mGluR on primary afferent terminals in spinal cord ($K_D = 51 \mu M$) compared to the (1S,3S)-ACPD-sensitive presynaptic mGlu ($K_D > 700 \mu M$). No activity on postsynaptic mGlu receptors or ionotropic glutamate receptors on neonatal rat motoneurons.</p> <p>Also available in simple stock solutions (ab146735) - add 1 ml of water to get an exact, ready-to-use concentration.</p>
CAS Number	66515-29-5
Chemical structure	 <p>The chemical structure shows a central carbon atom bonded to a carboxylic acid group (HO₂C), an amino group (H₂N), a methyl group (CH₃), and a methoxyphosphonate group (OPO₃H₂).</p>

Properties

Chemical name	2-Methyl-O-phosphonoserine
Molecular weight	199.10
Molecular formula	C ₄ H ₁₀ NO ₆ P
PubChem identifier	3964633
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked</p>

[questions \(FAQ\) page](#) for more details.

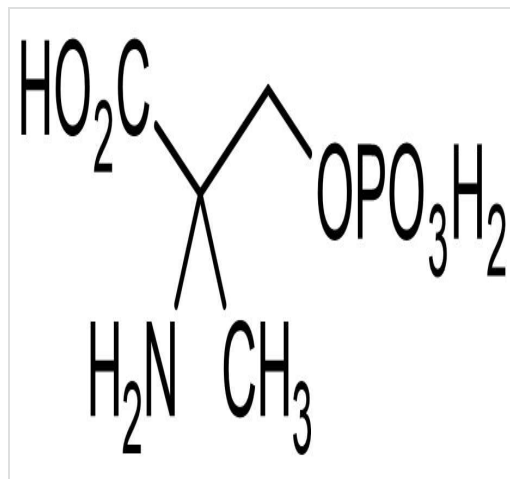
SMILES

CC(N)(COP(=O)(O)O)C(=O)O

Source

Synthetic

Images



Chemical Structure - MSOP, group III metabotropic glutamate receptor antagonist (ab141381)

2D chemical structure image of ab141381, MSOP, group III metabotropic glutamate receptor antagonist

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team