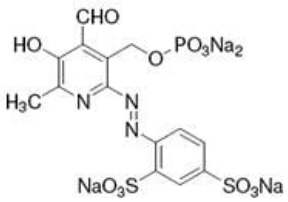
abcam

Product datasheet

PPADS, P2 purinergic receptor antagonist ab120009

10 References 4 图像

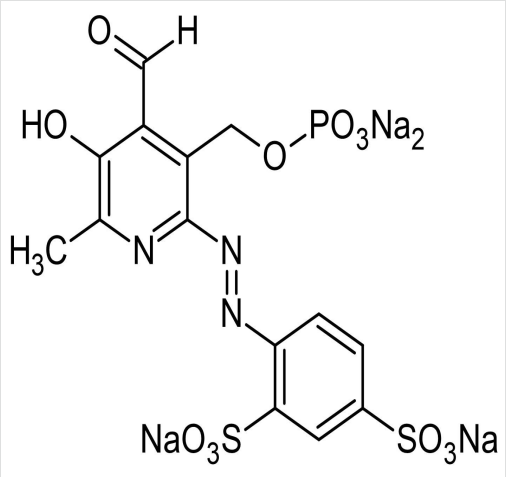
概述

产品名称	PPADS，P2 purinergic receptor拮抗剂
描述	P2 purinergic receptor拮抗剂
生物学描述	P2 purinergic receptor antagonist.
CAS编号	149017-66-3
化学结构	

性能

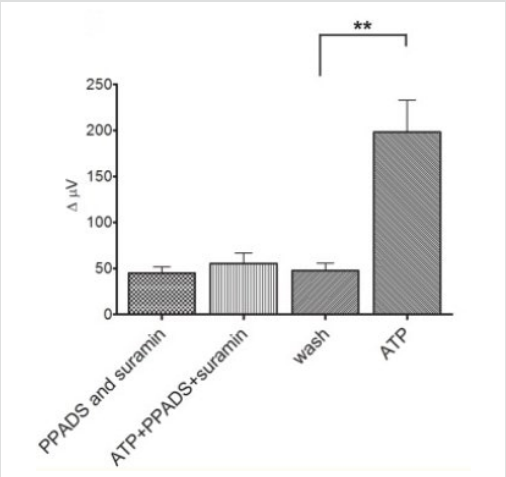
化学名称	4-[[4-Formyl-5-hydroxy-6-methyl-3-[(phosphonooxy)methyl]-2-pyridinyl]azo]-1,3-benzenedisulfonic acid tetrasodium salt
分子量	599.30
分子式	$C_{14}H_{10}N_3Na_4O_{12}PS_2$
PubChem识别号	4880
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 100 mM
处理	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 week. 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. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	O=S(=O)(O[Na])c2ccc(/N=N/c1nc(C)c(O)c(C=O)c1COP(=O)(O[Na])O[Na])c(c2)S(=O)(=O)O[Na]
来源	Synthetic

图片



Chemical Structure - PPADS, P2 purinergic receptor antagonist (ab120009)

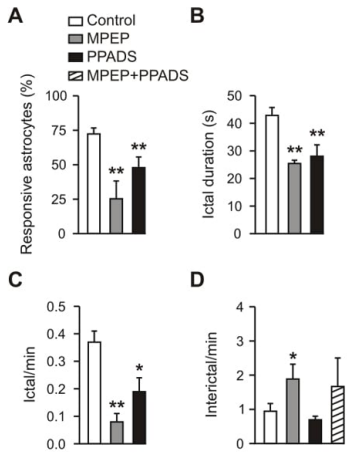
2D chemical structure image of ab120009, PPADS, P2 purinergic receptor antagonist



Cellular activation - PPADS, P2 purinergic receptor antagonist (ab120009)

Image from Tchernookova B, et al. Plos One, 13(2), e0190893. Fig 2c,; doi: 10.1371/journal.pone.0190893

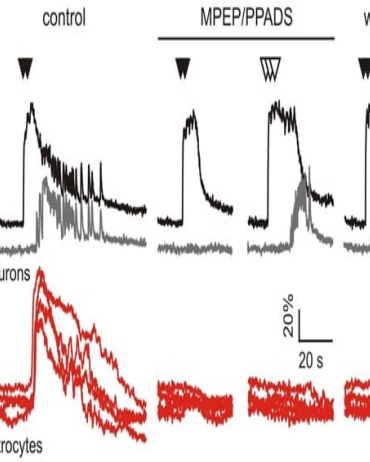
Inhibition by suramin and PPADS significantly reduces the ATP-induced increase in extracellular H+ flux from isolated Müller cells. Mean responses to 10 µM ATP with or without suramin and PPADS in the bath; N = 7, error bars represent SEMs.



Functional Studies - PPADS, P2 purinergic receptor antagonist (ab120009)

Image from Gómez-Gonzalo M et al., PLoS Biol. 2010;8(4):e1000352. Fig 2.; doi: 10.1371/journal.pbio.1000352. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Astrocyte Ca2+ signal inhibition does not affect interictal discharges. (A–D) Mean percentage of astrocytes activated by the ictal discharges (A), mean duration (B) and frequency (C) of the ictal discharge, and mean frequency of interictal discharges (D) under different experimental conditions in EC slice preparations. Controls (n=16), MPEP (**ab120008**) (n=7), PPADS (ab120009) (n=9), and MPEP+PPADS (n=3). A single asterisk (*) indicates $p<0.05$; double asterisks (**), $p<0.01$.



Functional Studies - PPADS, P2 purinergic receptor antagonist (ab120009)

Image from Gómez-Gonzalo M et al., PLoS Biol. 2010;8(4):e1000352. Fig 6(A).; doi: 10.1371/journal.pbio.1000352.

Ca2+ signal from a field A neuron, a field B neuron, and field A astrocytes in response to repetitive episodes of NMDA stimulation (black arrowheads). The NMDA stimulation that evoked an ictal discharge became ineffective after blocking the astrocyte response by bath perfusion with MPEP (**ab120008**) and PPADS (ab120009). An ictal discharge could be recovered by increasing the number of NMDA puffs (white arrowheads). A double NMDA pulse evoked both astrocyte activation and the ictal discharge after inhibitor washout.

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