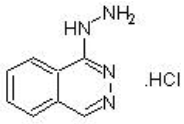
abcam

Product datasheet

Hydralazine hydrochloride, DNA methylation inhibitor. ab120863

2 Images

Overview

Product name	Hydralazine hydrochloride, DNA methylation inhibitor.
Description	DNA methylation inhibitor. Antihypertensive agent.
Biological description	Inhibits DNA methylation by inhibition of MAPK (EC_{50} = 2.96 µM). Multiple, direct effects on vascular smooth muscle; hyperpolarization, inhibition of IP_3-induced release of Ca^{2+} and formation of NO leading to cGMP-mediated vasodilation. DNMT inhibitor (IC_{50} = 2 µM).
Purity	> 99%
CAS Number	304-20-1
Chemical structure	

Properties

Chemical name	1-Hydrazinylpthalazine hydrochloride
Molecular weight	196.64
Molecular formula	$C_8H_8N_4$.HCl
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	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. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
Source	Synthetic

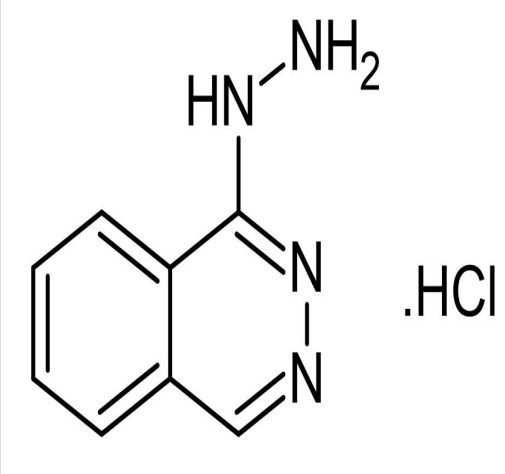
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120863 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

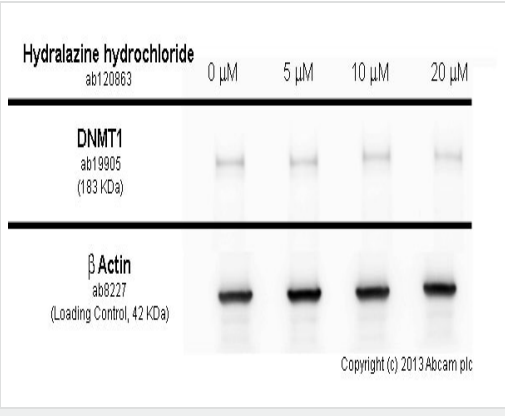
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Hydralazine hydrochloride, DNA methylation inhibitor. (ab120863)

2D chemical structure image of ab120863, Hydralazine hydrochloride, DNA methylation inhibitor.



Functional Studies - Hydralazine hydrochloride, DNA methylation inhibitor. (ab120863)

Jurkat cells were incubated at 37°C for 5 days with vehicle control (0 µM) and different concentrations of hydralazine hydrochloride (ab120863). Decreased expression of DNMT1 (**ab19905**) in Jurkat cells correlates with an increase in hydralazine hydrochloride concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab19905** at 1 µg/ml and **ab8227** at 1 µg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

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