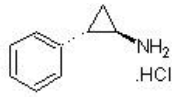
abcam

Product datasheet

Tranylcypromine hydrochloride (2-PCPA), Irreversible monoamine oxidase (MAO) inhibitor ab120606

2 Images

Overview

Product name	Tranylcypromine hydrochloride (2-PCPA), Irreversible monoamine oxidase (MAO) inhibitor
Description	Irreversible monoamine oxidase (MAO) inhibitor
Biological description	Irreversible monoamine oxidase (MAO) inhibitor. Increases serotonergic, noradrenergic activity and augments dopamine transmission. Additionally inhibits LSD1 (BHC110), inhibiting histone demethylation (IC_{50} = >50 µM). Anticonvulsant and antidepressant.
Purity	> 97%
CAS Number	1986-47-6
Chemical structure	

Properties

Chemical name	(±)-*trans*-2-Phenylcyclopropylamine hydrochloride
Molecular weight	169.65
Molecular formula	$C_9H_{11}N.HCl$
PubChem identifier	2723716
Storage instructions	Store at +4°C. Store under desiccating conditions. 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. 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.

SMILES	C1[C@H]([C@@H]1N)C2=CC=CC=C2.Cl
Source	Synthetic

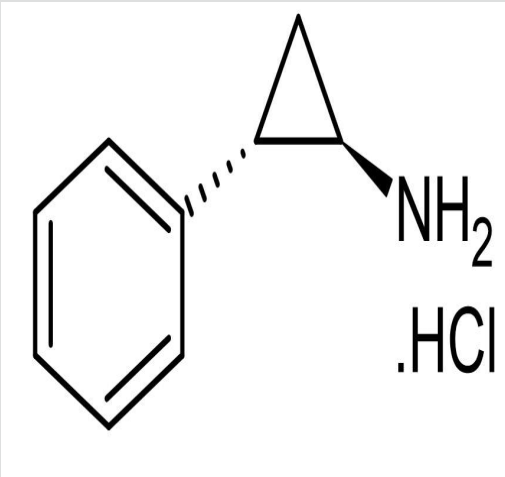
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120606 in the following tested applications.

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

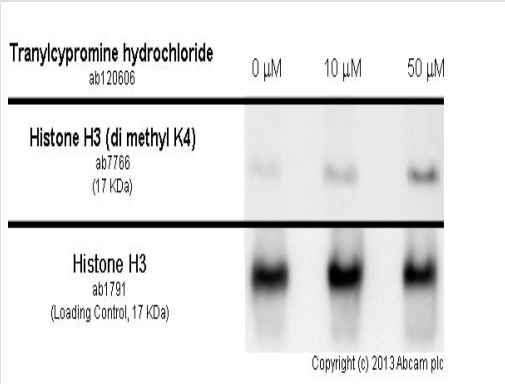
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Tranylcypromine hydrochloride (2-PCPA), Irreversible monoamine oxidase (MAO) inhibitor (ab120606)

2D chemical structure image of ab120606, Tranylcypromine hydrochloride (2-PCPA), Irreversible monoamine oxidase (MAO) inhibitor



Functional Studies - Tranylcypromine hydrochloride (2-PCPA), Irreversible monoamine oxidase (MAO) inhibitor (ab120606)

MCF7 cells were incubated at 37°C for 24h with vehicle control (0 µM) and different concentrations of tranylcypromine hydrochloride (ab120606). Increased expression of Histone 3 K4 di-methyl (**ab7766**) in MCF7 cells correlates with an increase in tranylcypromine hydrochloride concentration, as described in literature.

Nuclear extracts were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 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 **ab7766** at 1 µg/ml and **ab1791** 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.

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

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