

Product datasheet

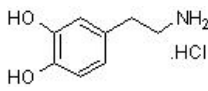
Dopamine hydrochloride ab120565

1 Image

Overview

Product name	Dopamine hydrochloride
Description	Endogenous neurotransmitter
Biological description	Endogenous neurotransmitter. Dopamine D ₁₋₅ receptor agonist. Norepinephrine and epinephrine precursor. Involved in numerous neurological functions and also in various conditions such as Parkinson's disease and schizophrenia.
Purity	> 99%

Properties

Chemical name	3,4-Dihydroxyphenethylamine hydrochloride
Molecular weight	189.64
Chemical structure	
Molecular formula	C ₈ H ₁₁ NO ₂ .HCl
CAS Number	62-31-7
Storage instructions	Store at -20°C. Store under desiccating conditions. 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>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	Synthetic

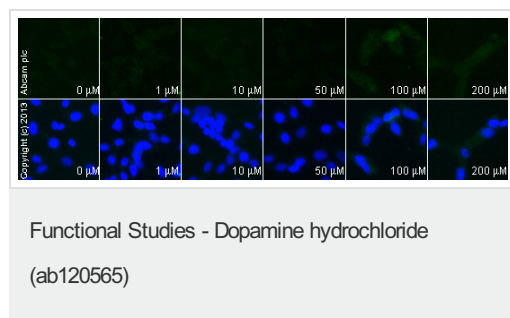
Applications

Our [Abpromise guarantee](#) covers the use of **ab120565** 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



[ab32088](#) staining MEK1 (phospho S218 + S222) in SKNSH cells treated with dopamine hydrochloride (ab120565), by ICC/IF. Increase in MEK1 (phospho S218 + S222) expression correlates with increased concentration of dopamine hydrochloride, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120565 (dopamine hydrochloride) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with [ab32088](#) (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody ([ab96899](#)) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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