

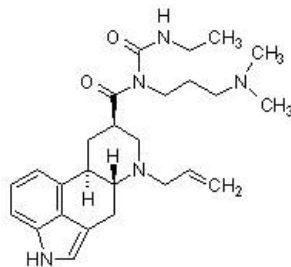
Cabergoline, D2-like receptor agonist ab120564

2 Images

Overview

Product name	Cabergoline, D2-like receptor agonist
Description	D ₂ -like receptor agonist
Biological description	D ₂ -like receptor agonist (K _i values are 0.7 (D ₂), 1.5 (D ₃), 9.0 (D ₄) and 165 nM (D ₅)). Highly potent at some 5-HT receptors (K _i values are 20 (5-HT _{1A}), 8.7 (5-HT _{1D}), 6.2 (5-HT _{2A}) and 1.2 nM (5-HT _{2B})). Shows antitumour effects and has antidepressant and anxiolytic properties.
CAS Number	81409-90-7

Chemical structure



Properties

Chemical name	<i>N</i> -[3-(Dimethylamino)propyl]- <i>N</i> -[(ethylamino)carbonyl]-6-(2-propenyl)ergoline-8β-carboxamide
Molecular weight	451.60
Molecular formula	C ₂₆ H ₃₇ N ₅ O ₂
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in ethanol to 100 mM and in DMSO 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>Refer to SDS for further information</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

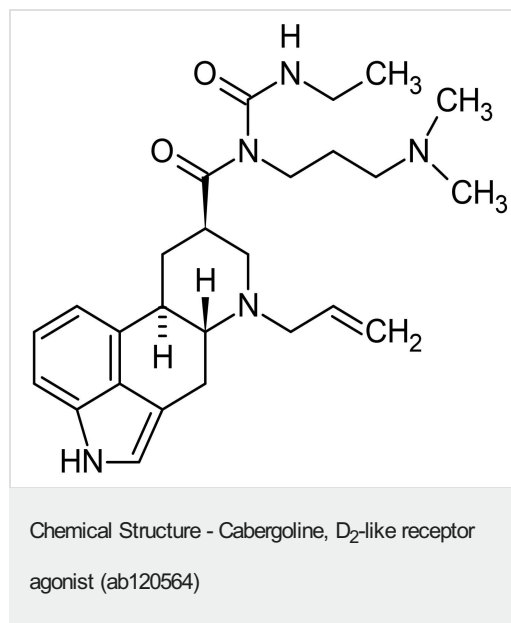
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120564 in the following tested applications.

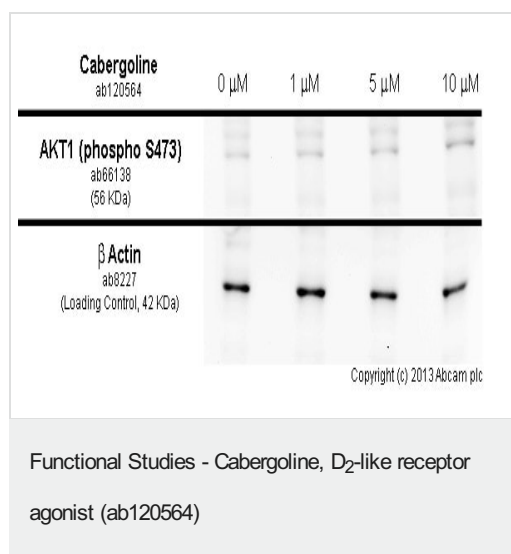
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Images



2D chemical structure image of ab120564, Cabergoline, D₂-like receptor agonist



PC12 cells were incubated at 37°C for 30 minutes with vehicle control (0 μM) and different concentrations of cabergoline (ab120564). Increased expression of AKT1 (phospho S473) (**ab66138**) in PC12 cells correlates with an increase in cabergoline concentration, as described in literature.

Whole cell lysates 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 **ab66138** at 1/1000 dilution 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.

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

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