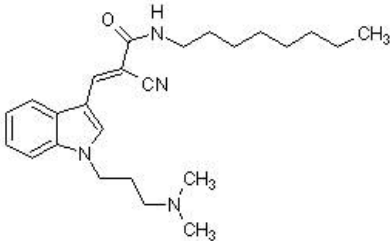


### Dynole® 34-2, dynamin I and dynamin II inhibitor ab120463

**12 References**   **3 图像**

#### 概述

产品名称	Dynole® 34-2, dynamin I and dynamin II抑制剂
描述	Potent dynamin I and dynamin II抑制剂
生物学描述	Potent, cell-permeable dynamin I and dynamin II inhibitor (IC <sub>50</sub> values are 1.3 and 14.2 μM for inhibition of dynamin I and II GTPase, respectively). Targets the GTPase domain at an allosteric site. Potently inhibits receptor-mediated and synaptic vesicle endocytosis (IC <sub>50</sub> values are 5 and 41.1 μM, respectively). 15-fold more active than Dynasore ( <a href="#">ab120192</a> ) against dynamin I.
常规说明	Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd. Dynole® is a trademark of Children's Medical Research Institute and Newcastle Innovation Ltd.
CAS编号	1128165-88-7
化学结构	

#### 性能

化学名称	2-Cyano-N-octyl-3-[1-(3-dimethylaminopropyl)-1H-indol-3-yl]acrylamide
分子量	408.59
分子式	C <sub>25</sub> H <sub>36</sub> N <sub>4</sub> O
PubChem识别号	44157463
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO 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 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.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

## SMILES

CCCCCCCCNC(=O)C(C#N)=Cc2cn(CCCN(C)C)c1cccc12

## 来源

Synthetic

## 应用

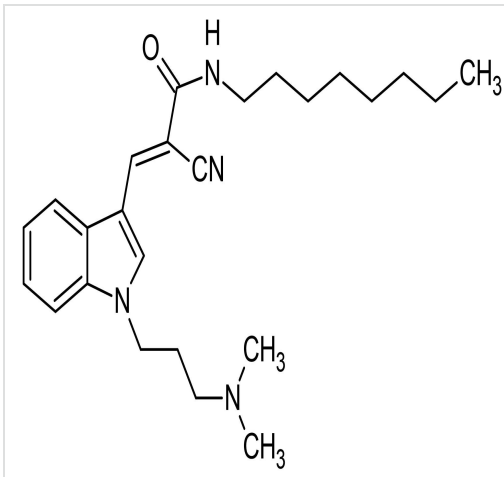
### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab120463 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

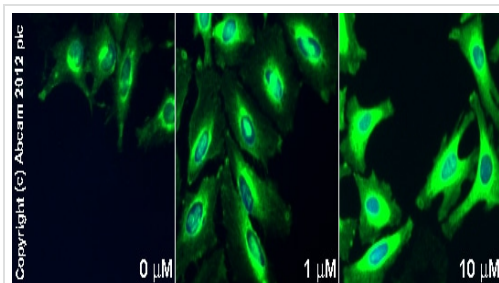
应用	Ab 评论	说明
Functional Studies		Use at an assay dependent concentration.

## 图片



2D chemical structure image of ab120463, Dynole® 34-2, dynamin I and dynamin II inhibitor

Chemical Structure - Dynole® 34-2, dynamin I and dynamin II inhibitor (ab120463)

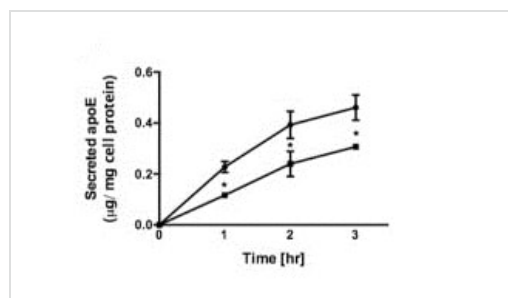


Immunocytochemistry/ Immunofluorescence -  
Dynole® 34-2, dynamin I and dynamin II inhibitor  
(ab120463)

**ab66705** staining PAI1 in HeLa cells treated with dynole-34-2™; (ab120463), by ICC/IF. Increase in PAI1 expression correlates with increased concentration of dynole-34-2™, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120463 (dynole-34-2™) 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 **ab66705** (5 µg/ml) 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.



Functional Studies - Dynole® 34-2, dynamin I and dynamin II inhibitor (ab120463)

Image from Kockx et al., PLOS One., 9(10): e111186. Fig 1F.; doi: <https://doi.org/10.1371/journal.pone.0111186>. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Primary human monocyte-derived macrophages (HMDM) were incubated with 30 µM of ab120463 for indicated time periods to determine if Dynamin inhibition decreases apoE secretion from primary human macrophages. Dynole-34-2 both dose- and time-dependently decreased apoE secretion without affecting HMDM viability (bottom line on the graph as appose to the control, top line).

Kockx et al., PLOS One., 9(10): e111186. Fig 1F.; doi: <https://doi.org/10.1371/journal.pone.0111186>.

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

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