

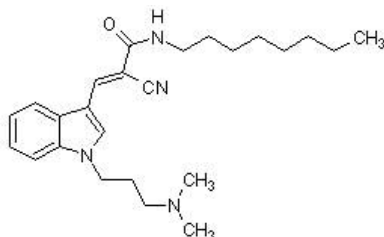
## Dynole® 34-2, dynamin I and dynamin II inhibitor ab120463

12 References 画像数 3

医薬用外劇物

### 製品の概要

製品名	Dynole® 34-2, dynamin I and dynamin II inhibitor
製品の詳細	Potent dynamin I and dynamin II inhibitor
生理活性の詳細	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.
特記事項	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 番号	1128165-88-7
構造式	



### 製品の特性

体系名	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 登録番号	44157463
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 100 mM
使用に関する注意	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 線形表記

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

## 由来

Synthetic

## アプリケーション

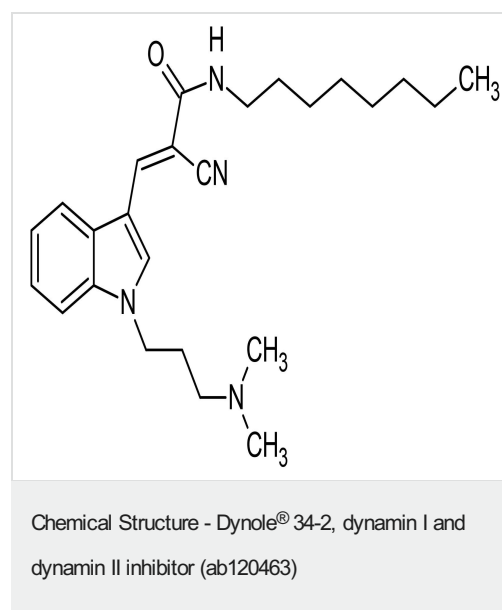
### The Abpromise guarantee

**Abpromise保証は、**次のテスト済みアプリケーションにおけるab120463の使用に適用されます

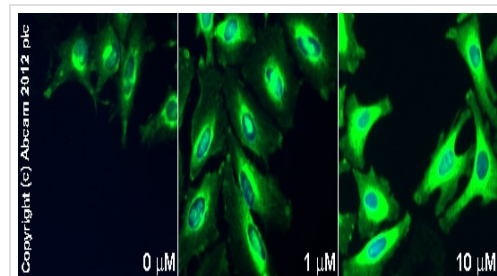
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

## 画像



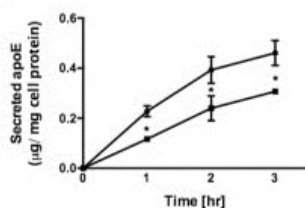
2D chemical structure image of ab120463, Dynole® 34-2, dynamin I and dynamin II inhibitor



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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