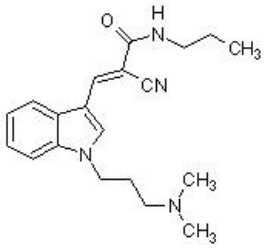
abcam

Product datasheet

Dynole® 31-2, Negative control for Dynolereg 34-2 ab120464

7 References 3 Images

Overview

Product name	Dynole® 31-2, Negative control for Dynolereg 34-2
Description	Negative control for Dynole® 34-2
Biological description	Negative control molecule for use with Dynole® 34-2 **ab120463**. Displays no significant activity at dynamin I or II (up to 300 µM).
General notes	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.
Chemical structure	

Properties

Chemical name	2-Cyano-*N*-propyl-3-[1-(3-dimethylaminopropyl)-1*H*-indol-3-yl]acrylamide
Molecular weight	338.45
Molecular formula	$C_{20}H_{26}N_4O$
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO 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. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

SMILES	CCCNC(=O)C(C#N)=Cc2cn(CCCN(C)C)c1ccccc12
Source	Synthetic

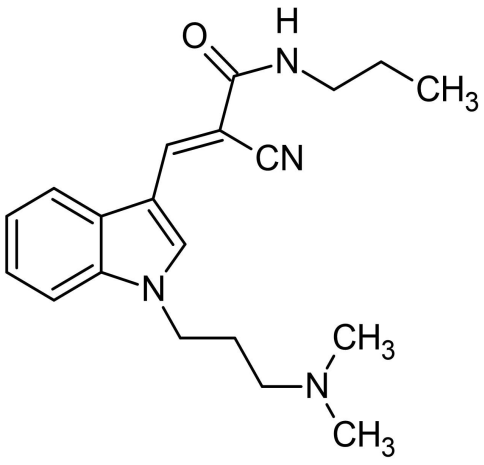
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120464 in the following tested applications.

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

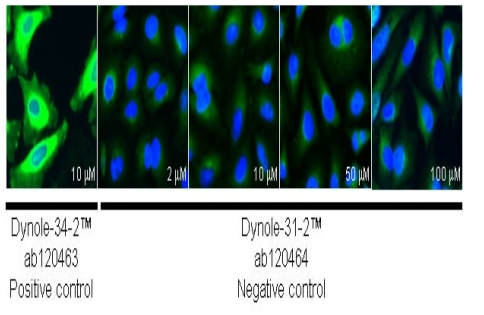
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



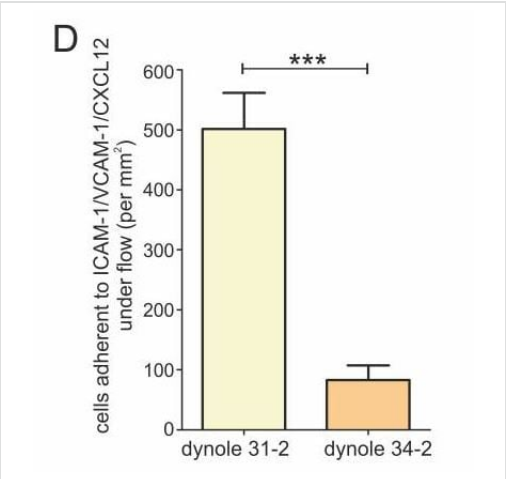
Chemical Structure - Dynole® 31-2, Negative control for Dynole^{reg} 34-2 (ab120464)

2D chemical structure image of ab120464, Dynole® 31-2, Negative control for Dynolereg 34-2



Immunocytochemistry/ Immunofluorescence - Dynole® 31-2, Negative control for Dynolereg 34-2 (ab120464)

ab66705 staining PAI1 in HeLa cells treated with dynole-31-2™ (ab120464), by ICC/IF. No change in PAI1 expression with increased concentration of dynole-31-2™ (negative control for dynole 34-2™ (**ab120463**), as described in literature.
The cells were incubated at 37°C for 6h in media containing different concentrations of ab120464 (dynole-31-2™) 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® 31-2, Negative control for Dynole^reg 34-2 (ab120464)

Dynamin2 regulates integrin-mediated T lymphocyte adhesion under laminar flow.

End point quantification of T lymphocyte adhesion following treatment of the cells with either Dynole 31–2 as a control or Dynole 34–2 to inhibit dynamin2 activity (n = 6)

(From Figure 2D of Eppler et al).

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