

Product datasheet

Dynole[®] 34-2 ab120463

5 References 1 Image

Overview

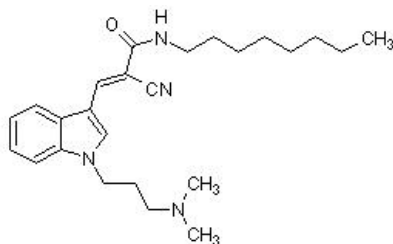
| | |
|-------------------------------|---|
| Product name | Dynole [®] 34-2 |
| Description | Potent dynamin I and dynamin II inhibitor |
| Biological description | Potent, cell-permeable dynamin I and dynamin II inhibitor (IC ₅₀ values are 1.3 and 14.2 μM for inhibition of dynamin I and II GTPase, respectively). Targets the GTPase domain at an allosteric site. Potently inhibits receptor-mediated and synaptic vesicle endocytosis (IC ₅₀ values are 5 and 41.1 μM, respectively). 15-fold more active than Dynasore (ab120192) against dynamin I. |
| Purity | > 99% |
| 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. |

Properties

Chemical name 2-Cyano-*N*-octyl-3-[1-(3-dimethylaminopropyl)-1*H*-indol-3-yl]acrylamide

Molecular weight 408.59

Chemical structure



Molecular formula C₂₅H₃₆N₄O

CAS Number 1128165-88-7

PubChem identifier 44157463

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

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

Source

Synthetic

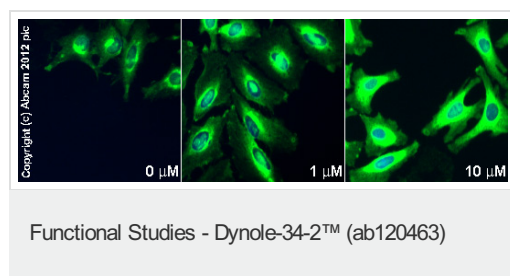
Applications

Our [Abpromise guarantee](#) covers the use of **ab120463** 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



ab66705 staining PA11 in HeLa cells treated with dynole-34-2™; (ab120463), by ICC/IF. Increase in PA11 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.

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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