

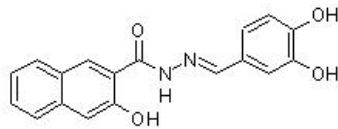
Product datasheet

Dynasore, dynamin inhibitor ab120192

[48 References](#) [3 Images](#)

Overview

Product name	Dynasore, dynamin inhibitor
Description	Cell-permeable dynamin inhibitor
Biological description	Cell-permeable dynamin inhibitor, that blocks endocytosis. Non-competitively inhibits dynamin1, dynamin2 and mitochondrial dynamin GTPase activity. Selective over other small GTPases.
CAS Number	304448-55-3
Chemical structure	



Properties

Chemical name	3-Hydroxynaphthalene-2-carboxylic acid (3,4-dihydroxybenzylidene)hydrazide
Molecular weight	322.31
Molecular formula	C ₁₈ H ₁₄ N ₂ O ₄
PubChem identifier	135533054
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble 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>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>Oc3ccc(/C=N/NC(=O)c1cc2ccccc2cc1O)cc3O</chem>
Source	Synthetic

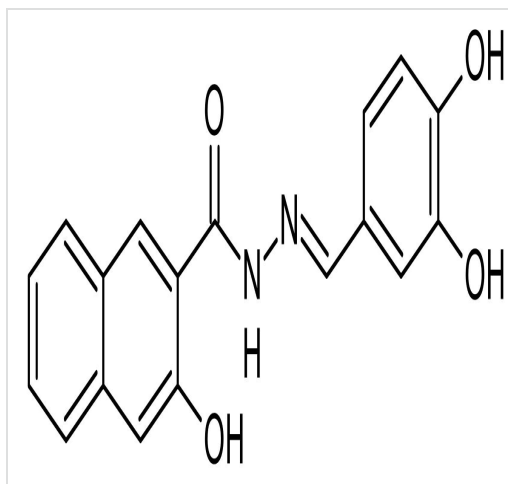
Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120192 in the following tested applications.

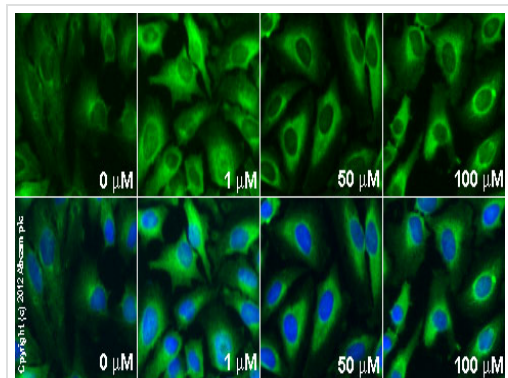
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Images

2D chemical structure image of ab120192, Dynasore, dynamin inhibitor

Chemical Structure - Dynasore, dynamin inhibitor
(ab120192)



Immunocytochemistry/ Immunofluorescence -
Dynasore, dynamin inhibitor (ab120192)

ab66705 staining PAI1 in HeLa cells treated with dynasore (ab120192), by ICC/IF. Increase in PAI1 expression correlates with increased concentration of dynasore, as described in literature.

The cells were incubated at 37°C for 6h in media containing different concentrations of **ab120689** (dynasore) 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.



Western blot - Dynasore, dynamin inhibitor
(ab120192)

Jens H et al. PLoS One. 2016; 11(10): e0164768. doi:
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Western blots of indicated proteins after knockdown with gene-specific siRNA against AP2M1 (ab120192) or non-targeting siRNA transfection control (NT).

siRNAs were transfected into HMVEC-L at the concentration of 100 nM for 48h. The cells were then infected with ANDV (MOI = 0.5) for 24 h or 48 h. Western blots were performed post infection to ensure knockdown of the specific protein expression. The blots were also probed with β -actin specific antibody as the gel-loading control.

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