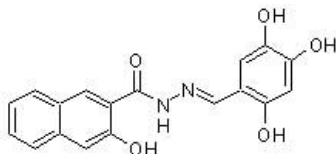


### Dyngo® 4a, Novel, highly potent dynamin inhibitor ab120689

**75 References**    画像数 3

#### 製品の概要

製品名	Dyngo® 4a, Novel, highly potent dynamin inhibitor
製品の詳細	Novel, highly potent dynamin inhibitor. Dynasore ( <b>ab120192</b> ) analog.
生理活性の詳細	Novel, highly potent dynamin inhibitor (IC <sub>50</sub> values are 400 nM and 200 nM at dynamin I and II human-recombinant, respectively). Inhibits clathrin-mediated endocytosis (IC <sub>50</sub> = 5.5 μM). Dynasore ( <b>ab120192</b> ) analog. Prevents botulin neurotoxin A (BoNTs) uptake and internalization, and prevents SNAP25 cleavage. Inhibits BoNTs induced paralysis and delays botulism onset.
特記事項	Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd. Dyngo® is a trademark of Children's Medical Research Institute and Newcastle Innovation Ltd.
CAS 番号	1256493-34-1
構造式	



#### 製品の特性

体系名	3-Hydroxy- <i>N</i> '-[(2,4,5-trihydroxyphenyl)methylidene]naphthalene-2-carbohydrazide
分子量	338.31
分子式	C <sub>18</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>
PubChem 登録番号	136227923
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.  Toxic, refer to SDS for further information.

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

#### SMILES 線形表記

C1=CC=C2C=C(C(=CC2=C1)C(=O)N/N=C/C3=CC(=C(C=C3O)O)O)O

#### 由来

Synthetic

#### アプリケーション

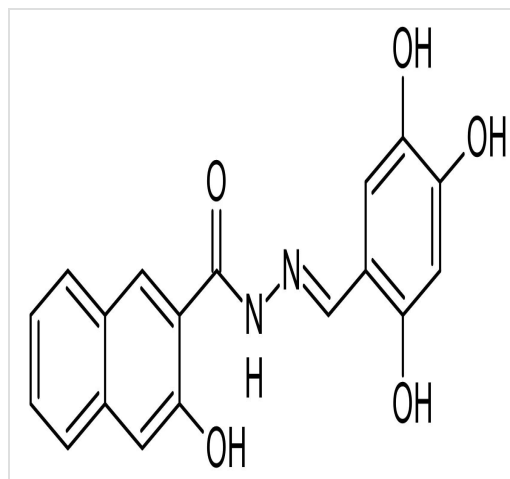
##### The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab120689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検討ください。

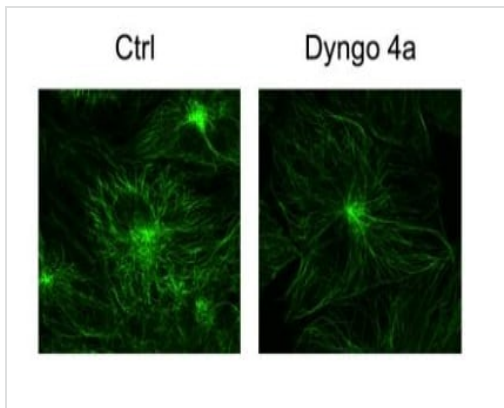
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

#### 画像



2D chemical structure image of ab120689, Dyngo® 4a, Novel, highly potent dynamin inhibitor

Chemical Structure - Dyngo® 4a, Novel, highly potent dynamin inhibitor (ab120689)

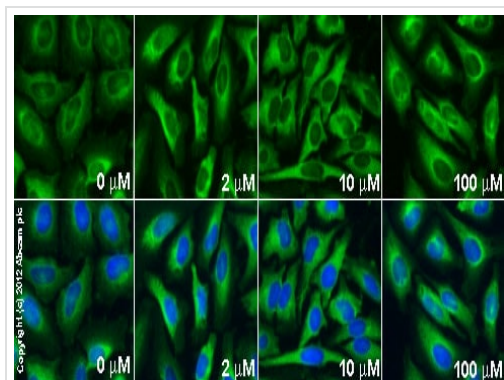


Functional Studies - Dyngo® 4a, Novel, highly potent dynamin inhibitor (ab120689)

Kockx Met al. PLoS One. 2014; 9(10): e111186. doi: 10.1371/journal.pone.0111186 Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Primary human monocyte-derived macrophages were treated without (Ctrl) and with ab120689 (Dyngo 4A) for 2 h. Effects on  $\alpha$ -tubulin and acetylated tubulin (Ac-tubulin) were determined by confocal microscopy.

Credit: Kockx M et al. PLoS One. 2014; 9(10): e111186. doi: 10.1371/journal.pone.0111186



Immunocytochemistry/ Immunofluorescence - Dyngo® 4a, Novel, highly potent dynamin inhibitor (ab120689)

**ab66705** staining PAI1 in HeLa cells treated with dyngo-4a™ (ab120689), by ICC/IF. Increase in PAI1 expression correlates with increased concentration of dyngo-4a™, as described in literature.

The cells were incubated at 37°C for 6h in media containing different concentrations of ab120689 (dyngo-4a™) 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  $\mu$ g/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. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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