

Product datasheet

Pitstop[®] 2 ab120687

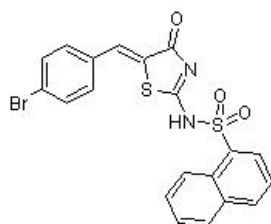
50 References 画像数 1

製品の概要

製品名	Pitstop [®] 2
製品の詳細	Novel, selective cell-permeable clathrin inhibitor
生理活性の詳細	Novel, selective, cell membrane permeable clathrin inhibitor. Competitively inhibits clathrin terminal domain to selectively inhibit clathrin mediated endocytosis (CME) (IC ₅₀ = 12 μM for inhibition of amphiphysin association of clathrin TD). Interferes with receptor mediated endocytosis (RME), entry of HIV and synaptic vesicle recycling.
精製度	> 98%
特記事項	Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd. Pitstop [®] is a trademark of Freie Universitat Berlin, Newcastle Innovation Ltd. and Children's Medical Research Institute

製品の特性

体系名	N-[5-(4-Bromobenzylidene)-4-oxo-4,5-dihydro-1,3-thiazol-2-yl]naphthalene-1-sulfonamide
分子量	473.36
構造式	



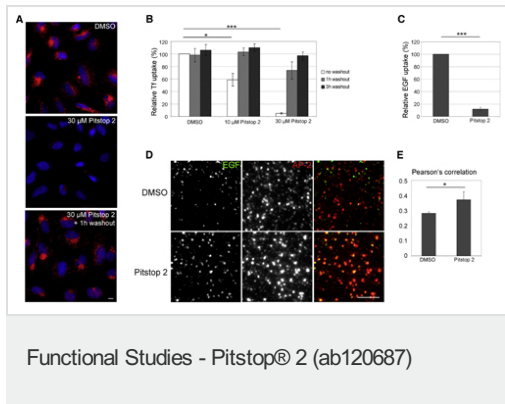
分子式	C ₂₀ H ₁₃ BrN ₂ O ₃ S ₂
CAS 番号	1419093-54-1
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO. Please refer to the Protocol Booklet for more information.
使用に関する注意	Wherever possible, you should prepare and use solutions on the 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.

由来

Synthetic

画像



A) Pitstop® 2 reversibly inhibits Tf uptake. After 15 min preincubation HeLa cells were incubated with Alexa Fluor® 568-Tf in the presence of DMSO or 30 μM Pitstop 2 for 15 min. Tf uptake is seen to resume after washout of the drug for 1 hr. Scale bar, 10 μm. B) Reversibility and dose dependence of Pitstop® 2-mediated inhibition of Tf uptake. Data represent SEM (n = 3 independent experiments; *p < 0.05, ***p < 0.0001). C) Pitstop® 2 inhibits EGF uptake. HeLa cells pretreated with 30 μM pitstop 2 or DMSO for 15 min were incubated for 15 min with Alexa Fluor® 488-EGF in the continued presence of inhibitor. Data represent SEM (n = 3 independent experiments; ***p < 0.0001). D) Pitstop 2 does not interfere with AP-2-mediated cargo sequestration into CCPs. TIRF microscopy images of Cos7 cells pretreated with DMSO or 30 μM Pitstop 2 for 15 min were incubated with Alexa Fluor® 488-EGF at 37°C in the continued presence of inhibitor and immunostained for AP-2a (red). Scale bar, 4 μm. E) Pearson's correlation between Alexa Fluor® 488-EGF and AP-2. Data represent SEM (n = 3 independent experiments; *p < 0.05).†

†This material was published for Cell, 146(3):471-484. von Kleist et al., Role of the Clathrin Terminal Domain in Regulating Coated Pit Dynamics Revealed by Small Molecule Inhibition. Copyright Elsevier (2011), with permission from Elsevier. Alexa Fluor® is a registered trademark of Life Technologies. Alexa Fluor® dye conjugates contain(s) technology licensed to Abcam by Life Technologies.

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