

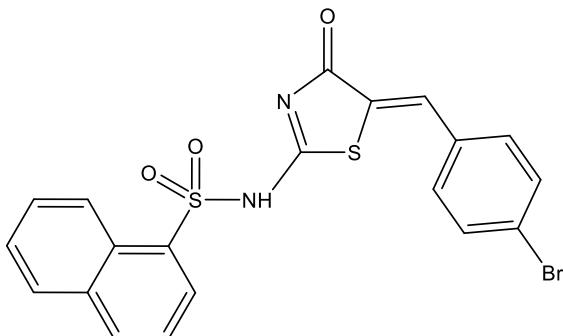
Catalog #10-4195

PITSTOP2

CAS 1332879-52-3

N-[(5Z)-5-[(4-Bromophenyl)methylidene]-4-oxo-1,3-thiazolidin-2-ylidene]naphthalene-1-sulfonamide

Lot # FBS4004



PITSTOP2 inhibits clathrin-mediated endocytosis *via* blockade of endocytic ligand association with the clathrin terminal domain leading to clathrin coat assembly inhibition.¹ It was able to cause a collapse of the nucleocytoplasmic permeability barrier and a reduction of Importin-β binding.² PITSTOP2 reduced viability in HeLa cells by trapping dividing cells in metaphase through loss of mitotic spindle integrity.³

- 1) Von Kleist *et al.* (2011) *Role of the Clathrin Terminal Domain in Regulating Coated Pit Dynamics Revealed by Small Molecule Inhibition*; Cell **146** P471
- 2) Liashkovich *et al.* (2015) *Clathrin inhibitor Pitstop-2 disrupts the nuclear pore complex permeability barrier*; Sci. Reports **5** 9994
- 3) Smith *et al.* (2013) *Inhibition of clathrin by pitstop2 activated the spindle assembly checkpoint and induces cell death in dividing HeLa cancer cells*; Mol. Cancer **12** 4

PHYSICAL DATA

Molecular Weight:	473.36
Molecular Formula:	C ₂₀ H ₁₃ BrN ₂ O ₃ S ₂
Purity:	>98% TLC
	NMR: (Conforms)
Solubility:	DMSO (at least 30 mg/ml)
Physical Description:	Pink solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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