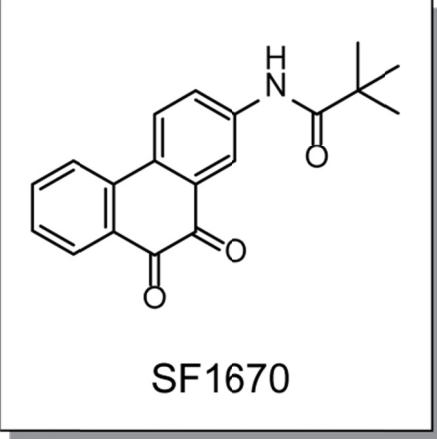




Product Specification Sheet

Product Name: SF1670	
Catalog Number: C7316-2 (powder) C7316-2s (10mM in DMSO)	
Package Size: 2 mg	
Technical information:	
Chemical Formula:	C ₁₉ H ₁₇ NO ₃
CAS #:	345630-40-2
Molecular Weight:	307.34
Purity:	>98%
Formulation:	Purple solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	N-(9,10-dioxo-9,10-dihydrophenanthren-2-yl)pivalamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Handling:	<ul style="list-style-type: none">• For C7316-2 (powder), add 651 uL of DMSO to make 10 mM solution.• For C7316-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full sample recovery.
Biological Activity:	SF1670 is a selective PTEN inhibitor (IC ₅₀ =2 μM). As PTEN-mTOR pathway is critical for controlling the regenerative capacity of corticospinal neurons, PTEN deletion or its inhibitor enhances the regenerative ability of adult corticospinal neurons. Pretreatment with SF1670 augments the efficacy of granulocyte transfusion in a clinically relevant mouse model.
Reference:	<ol style="list-style-type: none">1. Garlich, Joseph et al. Preparation of (heteroaryl) amides and hydrazides as inhibitors of phosphatase located on chromosome 10 (PTEN). PCT Int. Appl. (2005), WO 2005097119.2. Kai Liu, et al. PTEN deletion enhances the regenerative ability of adult corticospinal neurons. Nature Neuroscience (2010), 13(9), 1075-1081.3. Yitang Li, et al. Pre-treatment with PTEN inhibitor SF1670 augments the efficacy of granulocyte transfusion in a clinically relevant mouse model. Blood. 2011;117(24):6702-13.

For Technical Support: technical@cellagentech.com

For research use only, not for clinical or diagnostic use.