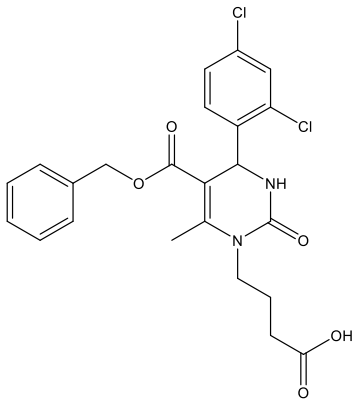
Catalog # 10-1567
Compound 115-7c
908074-72-6
4-(5-((Benzyloxycarbonyl)-4-(2,4-dichlorophenyl)-6-methyl-2-oxo-3,4-dihydropyrimidin-1(2H)-yl)butanoic acid; SW02
Lot # X106421



Acts as an artificial co-chaperone for HSP70.[1] The activity of compound 115-7c mirrors those of HSP40 stimulating the ATPase and protein-folding activities of prokaryotic HSP70. Increases tau levels in cell lines overexpressing tau.[2] Induces solubilization of polyglutamine and exacerbates polyQ-mediated toxicity.[3,4] An important probe for understanding HSP70 functions.[4]

1) Wisen *et al*. (2010), *Binding of a small molecule a the protein-protein interface regulates the chaperone activity of hsp70-hsp40*; ACS Chem. Biol., **5** 611
2) Jinwal *et al*. (2010), *Hsp70 ATPase Modulators as Therapeutics for Alzheimer's and other Neurodegenerative Diseases*; Mol. Cell Pharmacol., **2** 43
3) Chafekar *et al*. (2012), *Pharmacological tuning of heat shock protein 70 modulates polyglutamine toxicity and aggregation*; ACS Chem. Biol., **7** 1556
4) Walter *et al*. (2011), *Ordered assembly of heat shock proteins Hsp26, Hsp70, Hsp90, and Hsp104, on expanded polyglutamine fragments revealed by chemical probes*; J. Biol. Chem., **286** 40486

PHYSICAL DATA

Molecular Weight:	477.34
Molecular Formula:	$C_{23}H_{22}Cl_2N_2O_5$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated 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 2 months.

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