

HyT36

Chemical Properties

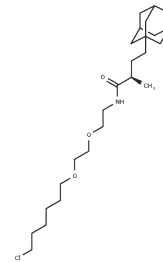
CAS No. : 1323151-45-6

Formula: C₂₅H₄₄ClNO₃

Molecular Weight: 442.07

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	HyT36 is a small molecule hydrophobic tag that selectively destabilizes and promotes the degradation of fusion proteins and the pseudokinase Her3. HyT36 can treat cells expressing erht induced acutely.
Targets(IC50)	EGFR,Others,HER
In vitro	HyT36 (10 μ M ; 24 h) reduced the expression of GFP-HaloTag2/Fz4-HaloTag2/GFP-HaloTag7 fusion protein in HEK293 cells.[1] HyT36 (10 μ M ; 2 or 48 h) reduced the expression of EGFP in HEK293 Flp-In cells expressing HA-EGFP-HaloTag2 and enhanced the binding of Hsp70 to the HA-EGFP-HaloTag2 fusion protein.[3] HyT36 (50 nM ; 24 h) reduced the content of EGFP HaloTag2 in HEK293 Flp In cells expressing HA-EGFP HaloTag2.[3] HyT36 (1 μ M ; 4 d) reduced the expression of HA HaloTag2 HRasG12V in NIH-3T3 cells expressing HA HaloTag2 HRasG12V.[3]

Solubility Information

Solubility	DMSO: 90 mg/mL (203.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.46 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2621 mL	11.3104 mL	22.6209 mL
5 mM	0.4524 mL	2.2621 mL	4.5242 mL
10 mM	0.2262 mL	1.131 mL	2.2621 mL
50 mM	0.0452 mL	0.2262 mL	0.4524 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tae HS, et al. Identification of hydrophobic tags for the degradation of stabilized proteins. *Chembiochem*. 2012 ; 13(4):538-541.

Rubner S, et al. Poloxin-2HT+: changing the hydrophobic tag of Poloxin-2HT increases Plk1 degradation and apoptosis induction in tumor cells. *Org Biomol Chem*. 2019 ; 17(12):3113-3117.

Neklesa TK, et al. A bidirectional system for the dynamic small molecule control of intracellular fusion proteins. *ACS Chem Biol*. 2013 ; 8(10):2293-2300.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481