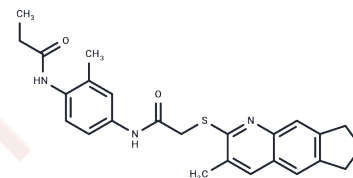


FKBP51-Hsp90-IN-2

Chemical Properties

CAS No. :	601511-07-3
Formula:	C ₂₅ H ₂₇ N ₃ O ₂ S
Molecular Weight:	433.57
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	FKBP51-Hsp90-IN-2 (Compound E08) functions as a selective inhibitor for the FKBP51 - Hsp90 protein-protein interaction, exhibiting IC ₅₀ values of 0.4 μM for FKBP51 and 5 μM for FKBP52. Beyond its inhibitory actions, FKBP51-Hsp90-IN-2 enhances cellular energy metabolism and promotes neurite growth. This compound is utilized in the study of neurodegenerative diseases and cancer [1].
Targets(IC ₅₀)	HSP,FKBP
In vitro	FKBP51-Hsp90-IN-2 inhibits the interaction between Hsp90 and FKBP51 in HEK293 cells when administered at concentrations of 3-30 μM for 48 hours, and enhances energy metabolism after treatment with a concentration of 10 μM for 1-4 hours. Additionally, this compound stimulates neurite outgrowth in differentiated neuroblastoma SH-SY5Y cells. Cell viability assays conducted in HEK293 cells reveal an increase of 10-25% in cell viability after exposure to 10 μM for 1, 2, and 4 hours, measured via MTT assay. Western Blot analysis post 48-hour treatment at concentrations of 3, 10, and 30 μM shows suppressed FKBP51-Hsp90 protein-protein interaction.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3064 mL	11.5322 mL	23.0643 mL
5 mM	0.4613 mL	2.3064 mL	4.6129 mL
10 mM	0.2306 mL	1.1532 mL	2.3064 mL
50 mM	0.0461 mL	0.2306 mL	0.4613 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.

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