

TFAM activator 1

Chemical Properties

CAS No. :	932992-44-4
Formula:	C ₁₈ H ₁₉ N ₃ O ₄ S
Molecular Weight:	373.43
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	TFAM activator 1 (Compound 2) is a mitochondrial transcription factor A (TFAM) activator with anti-inflammatory properties and the ability to repair mitochondrial dysfunction. It enhances TFAM protein levels and mitochondrial DNA copy number, inhibits mitochondrial DNA-induced inflammatory responses by preventing mitochondrial DNA from escaping into the cytosol, thereby reducing cytokine production (TNF- α , CXCL-10, and IFN). Additionally, it significantly raises ATP levels, decreases fibrosis markers, and strengthens Treg 240 function. TFAM activator 1 is useful for investigating mitochondrial dysfunctions, such as those in Parkinson's and Alzheimer's disease.
Targets(IC50)	Mitochondrial Metabolism,CXCR,IFNAR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6779 mL	13.3894 mL	26.7788 mL
5 mM	0.5356 mL	2.6779 mL	5.3558 mL
10 mM	0.2678 mL	1.3389 mL	2.6779 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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

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