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DATASHEET

Pifithrin- μ

Product overview

Name	Pifithrin- μ
Cat No	HB3025
Alternative names	NSC 303580
Biological action	Inhibitor
Purity	>99%
Description	p53 inhibitor. Suppresses eSC self renewal and may increase stem cell reprogramming efficiency.

Biological Data

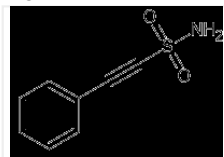
Biological description p53-mitochondrial binding inhibitor which inhibits p53-mediated apoptosis. Also a HSP70 inhibitor. Suppresses embryonic stem cell (eSC) self renewal.

By silencing p53, it may also increase human somatic cells to induced pluripotent stem cells (iPSCs) reprogramming efficiency.

Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Phenylethynesulfonamide
Molecular Weight	181.21
Chemical structure	
Molecular Formula	C ₈ H ₇ NO ₂ S
CAS Number	64984-31-2
PubChem identifier	327653
SMILES	NS(=O)(=O)C#CC1=CC=CC=C1
InChIKey	ZZUZYEMRHCMVTB-UHFFFAOYSA-N

References

The HSP70 and autophagy inhibitor pifithrin- μ enhances the antitumor effects of TRAIL on human pancreatic cancer.

Monma et al (2013) Mol Cancer Ther 12(4)

PubMedID [23371857](#)

Linking the p53 tumour suppressor pathway to somatic cell reprogramming.

Kawamura et al (2009) Nature 460(7259)

PubMedID [19668186](#)

Prevention of chemotherapy-induced peripheral neuropathy by the small-molecule inhibitor pifithrin- μ .

Krukowski et al (2015) Pain 156(11)

PubMedID [26473292](#)
