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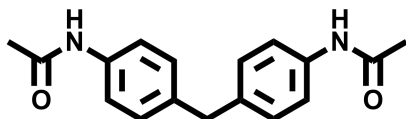
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Hepatocytes Functional Enhancer – FH1

Chemical Name: N,N'-(methylenebis(4,1-phenylene))diacetamide



Molecular Weight:	282.34
Formula:	C ₁₇ H ₁₈ N ₂ O ₂
Purity:	≥98%
CAS#:	2719-05-3
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

FH1 is a potent and selective small molecule that enhances hepatocyte functions and promotes the differentiation and maturation of iPSC-derived hepatocytes toward a more mature phenotype in vitro. FH1 was identified by a high-throughput, cell-based screening using primary human hepatocytes. It was added to the basal medium with or without OSM on day 21 after the initiation of differentiation of iPSCs and acted over a period of 9 day to promote more pronounced hepatocyte morphologies, including polygonal cell shapes, visible nuclei and more noticeable bile canaliculi between hepatocytes.

How to Use:

In vitro: FH1 was suggested to be supplemented into the culture medium on day 21 at a concentration of 15-20 μM to enhance hepatocyte functions in vitro over period of 9 days.

In vivo: n/a

Reference:

1. Shan J, et al. Identification of small molecules for human hepatocyte expansion and iPSC differentiation. (2013) Nat Chem Biol. 9(8):514-20.

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