
Product Data Sheet

Product Name: FH1(BRD-K4477)

Cat. No.: GC12430

Chemical Properties

Cas. No. 2719-05-3

SMILES CC(=O)NC1=CC=C(C=C1)CC2=CC=C(C=C2)NC(=O)C

Formula $C_{17}H_{18}N_2O_2$ M.Wt 282.34

Solubility $\geq 12.25\text{mg/mL}$ in DMSO with gentle warming Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

FH1 is a small molecule that can enhance the functions of cultured hepatocytes [1].

FH1 belongs to the function-only hits which are screened out by their ability to permit renewable sourcing of functional human hepatocytes. Besides that, FH1 can promote differentiation of iPS-derived hepatocytes towards a more mature phenotype. It doubles albumin secretion during the differentiation of iPS cells into iHeps. Cultures treated with FH1 contain larger colonies of iHeps with more pronounced hepatocyte morphologies. Moreover, treatment of FH1 also resulted in the increase of CYP3A4 levels and the decrease of AFP secretion [1].

References:

[1] Shan J, Schwartz R E, Ross N T, et al. Identification of small molecules for human hepatocyte expansion and iPS differentiation. Nature chemical biology, 2013.

Caution: Product has not been fully validated for medical applications. For research use only.

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