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LY294002 (Qk1102)



Type: Small molecules

Available for purchase: unit size (mg): 5, 10

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Product Information

LY294002 is a broad-spectrum inhibitor of phosphoinositide 3-kinases (PI3Ks). PI3K is a major regulator of cell proliferation, survival, motility and metabolism. LY294002 can be using in stem cell media to reduce proliferation and self-renewal, promoting differentiation.

Qkine LY294002 (Qk1102) is highly pure and validated in iPSC differentiation into endoderm and mesoderm lineages.

Alternative protein names

SF 1101, NSC 697286, LY 294002

Product Size Wording

Sourced from a trusted supplier and order fulfilled by Qkine

Molecular weight

Molecular Weight: 307.3

Protein Uniprot number

Cas No. 154447-36-6

Product Information

- Formula: $C_{19}H_{17}NO_3$
- Storage: powder -20°C for 1 year, in solvent -80°C for 1 year
- Solubility EtOH 10 mg/ml, DMSO 61.8 mg/ml

Featured applications

- Differentiation of iPSC into endoderm
- iPSC-derived mesoderm differentiation
- Neural differentiation from pluripotent stem cells
- Induction of cardiomyocytes from iPSCs
- Cancer research

Further quality assays

- >99% purity
- HPLC/HNMR: Consistent with structure

Scientific Information

Bioactivity

Preparation of LY294002 stock solution in DMSO/EtOH

	1 mg	5 mg	10 mg
1 mM	3.25 ml	16.27 ml	32.54 ml
5 mM	0.65 ml	3.25 ml	6.51 ml
10 mM	0.33 ml	1.62 ml	3.25 ml
50 mM	0.05 ml	0.33 ml	0.65 ml

Original product page: https://qkine.com/product/ly294002-qk1102/

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