

D-3 biochemical

D-3

CATALOG #
AAA228028

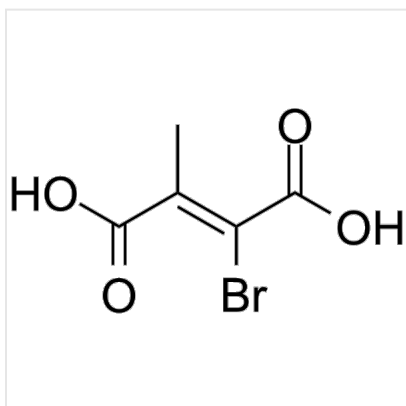
PRODUCT SYNONYMS

D-3; cis-2-Bromo-3-methylbutenedioic acid; D-3 biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1967815-98-0
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	D-3 prevents residual iPSC-induced teratoma formation in a mouse tumorigenicity assay[1]. D-3 induces obvious loss of viability in 201B7 cells, with half maximal inhibitory concentration value of 192.3 +/- 57.4 uM[1]. D-3 induces an increase in the amount of activated eIF2a, p38, and p44/42 MAPK, which are activated in response to cellular stress. D-3 also increases the number of Annexin-V and SYTOX-positive cells, indicating apoptotic and dead cells after D-3 treatment[1]. D-3 has little influence on various non-iPSCs, including hepatocytes and neurons[1]. Cell Viability Assay[1]Cell Line: Six human iPSCs lines and one human ESC line (khES1). Concentration: 400 uM. Incubation Time: 1-2 h. Result: Sufficient to induce a viability loss (99% in all iPSC lines and 95% in khES1).
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Z)-2-Bromo-3-methyl-2-butenedioic acid, CAS 23366-89-4



Structure
Z)-2-Bromo-3-methyl-2-butenedioic acid, CAS 23366-89-4

ADDITIONAL INFORMATION

Related Product Information for D-3 biochemical	D-3, a phosphopeptide, is an efficient, simple, and specific iPSC-eliminating agent.
References	1. Stuart W Krasner, et al.Occurrence of a new generation of disinfection byproducts. Environ Sci Technol. 2006 Dec 1;40(23):7175-85.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/d-3/228028>