Resazurin

Cat. No.: HY-118540

CAS No.: 550-82-3

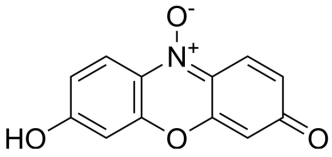
Molecular Formula: $C_{12}H_7NO_4$

Molecular Weight: 229.19

Target: Fluorescent Dye

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Resazurin (Diazoresorcinol) is a water-soluble, non-toxic, stable, membrane-permeable blue non-fluorescent dye (faintly fluorescent). Resazurin is used as a redox indicator, can be reduced to pink, highly fluorescent Resorufin (Ex=530-560 nm, Em=590 nm) in living cells. Resazurin can be used for the detection of cell viability, toxicity, proliferation, migration and invasion in cells (human, plant and animal, bacterial and fungal)[1][2].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Cell viability[1][2]: 1. Defrost the Resazurin solution in a 37°C water bath. 2. Place the cells on a 96-well plate, and washed by PBS (avoid light). 3. Remove the PBS wash, then add 500 μL (1μg/mL) of Resazurin solution. 4. Place the plate, in the incubator for 30 min (incubation time depends on cell type and cell number). 5. Measure Resorufin fluorescence (Ex=530-560 nm, Em=590 nm) using a microplate reader. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Metab. 2021 Oct 18.
- Acta Pharm Sin B. 2023 Feb 4.
- bioRxiv. 2023 Apr 8.

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REFERENCES

[1]. Silva FSG, et al. Determination of Metabolic Viability and Cell Mass Using a Tandem Resazurin/Sulforhodamine B Assay. Curr Protoc Toxicol. 2016 May 4;68:2.24.1-2.24.15.

[2]. Rampersad SN. Multiple applications of Alamar Blue as an indicator of metabolic function and cellular health in cell viability bioassays. Sensors (Basel).

2012;12(9):12347-60.

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