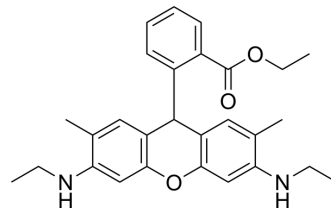


## Dihydrorhodamine 6G

Cat. No.:	HY-W247098
CAS No.:	217176-83-5
Molecular Formula:	C <sub>28</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	444.57
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Dihydrorhodamine 6G (DHR 6G) is the reduced form of Rhodamine 6G, which is used as fluorescent mitochondrial dye. It is nonfluorescent, but it readily enters most of the cells and is oxidized by oxidative species or by cellular redox systems to the fluorescent rhodamine 6G that accumulates in mitochondrial membranes. Dihydrorhodamine 6G is useful for detecting reactive oxygen species (ROS) including superoxide<sup>[1]</sup>.

### REFERENCES

[1]. Yong Qin, et al. Dihydrorhodamine 123 is superior to 2,7-dichlorodihydrofluorescein diacetate and dihydrorhodamine 6G in detecting intracellular hydrogen peroxide in tumor cells. Cell Biol Int. 2008 Feb;32(2):224-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA