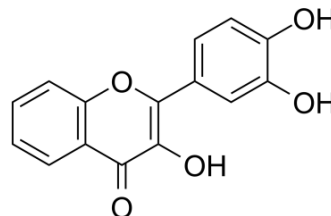


## 3',4'-Dihydroxyflavonol

Cat. No.:	HY-111804
CAS No.:	6068-78-6
Molecular Formula:	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
Molecular Weight:	270.24
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3',4'-Dihydroxyflavonol (DiOHF) is an effective antioxidant, which reduces superoxide and improves nitric oxide (NO) function in diabetic rat mesenteric arteries <sup>[1]</sup> .
<b>In Vitro</b>	3',4'-Dihydroxyflavonol (DiOHF) acutely preserves nitric oxide (NO) activity in the presence of elevated reactive oxygen species (ROS). DiOHF improves NO activity in diabetes by reducing Nox2-dependent superoxide production and preventing eNOS uncoupling to improve endothelial function <sup>[1]</sup> . 3',4'-Dihydroxyflavonol reduces vascular contraction through Ca <sup>2+</sup> desensitization in permeabilized third-order branches of rat mesenteric arteries <sup>[2]</sup> .

### REFERENCES

- [1]. Leo CH, et al. 3',4'-Dihydroxyflavonol reduces superoxide and improves nitric oxide function in diabetic rat mesenteric arteries. PLoS One. 2011;6(6):e20813.
- [2]. Kim HY, et al. 3',4'-Dihydroxyflavonol reduces vascular contraction through Ca<sup>2+</sup> desensitization in permeabilized rat mesenteric artery. Naunyn Schmiedebergs Arch Pharmacol. 2012 Feb;385(2):191-202.

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

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