NEUROMICS

Carnosic Acid Data Sheet

Catalog Number:	MC11058	**Product Type:**	Small Molecule
Bio-Activity:	Immunomodulator	**CAS #:**	3650-09-7
Research Categories:	Cell death, oxidative stress, immunology, neuroscience, cancer, diabetes, inflammation, neurodegeneration	**Chemical Name:**	Natural diterpenoid resorcinol isolated from Rosmarinus officinalis.
Solubility:	Soluble in DMSO (up to 50 mg/ml).	**Molecular Formula:**	C20H28O4
Purity:	> 98%	**Molecular Weight:**	332.42
Format:	Powder	**Ship Temp:**	Ambient
Storage:	-20°C		

Application Notes

Description/Data:
Antioxidant and free radical scavenger. Increases cellular levels of glutathione (GSH) and prevents 6-hydroxydopamine-induced cell death in SH-SY5Y cells [1]. Carnosic acid-stimulation of GSH inhibits adipocyte differentiation [2]. Induces apoptosis [3] and inhibits the proliferation and migration of various tumor cell lines [4].

References:

1) Chen et al. (2012), Carnosic acid prevents 6-hydroxydopamine-induced cell death in SH-SY5Y cells via mediation of glutathione synthesis; Chem. Res. Toxicol., 25 1893

2) Takahashi et al. (2009), Carnosic acid and carnosol inhibit adipocyte differentiation in mouse 3T3-L1 cells through induction of phase2 enzymes and activation of glutathione metabolism; Biochem. Biophys. Res. Commun., 382 549

3) Kar et al. (2012), Carnosic acid modulates Akt/IKK/NFκB signaling by PP2A and induces intrinsic and extrinsic pathway mediated apoptosis in human prostate carcinoma PC-3 cells; Apoptosis, 17 735

4) Barni et al. (2012), Carnosic acid inhibits the proliferation and migration capacity of human colorectal cancer cells; Oncol. Rep., 27 1041

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