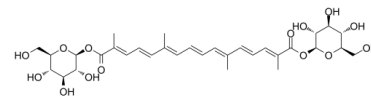


## Data Sheet

<b>Product Name:</b>	Crocin IV
<b>Cat. No.:</b>	CS-0159554
<b>CAS No.:</b>	57710-64-2
<b>Molecular Formula:</b>	C <sub>32</sub> H <sub>44</sub> O <sub>14</sub>
<b>Molecular Weight:</b>	652.68
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

Crocin IV (Dicrocin), a crocetin glycoside, is a carotenoid pigment. Crocin IV has potent antioxidant activity<sup>[1]</sup>. **In Vitro:** Crocin IV (Dicrocin; 10 μM; 24 hours) has little or no effect on the prolongation of cell survival in PC12 cell<sup>[1]</sup>.

Crocin IV enhances γ-GCS mRNA expression in serum-deprived and hypoxic PC12 cells<sup>[1]</sup>.

Measurements of cell viability, peroxidized membrane lipids and caspase-3 activity showed that the rank order of the neuroprotective potency at a concentration of 10 μM is crocin>tricrocin>dicrocin and picrocrocin (the latter two crocins had a little or no potency)<sup>[1]</sup>.

### References:

[1]. Takashi Ochiai, et al. Protective effects of carotenoids from saffron on neuronal injury in vitro and in vivo. *Biochim Biophys Acta*. 2007 Apr;1770(4):578-84.

### CAIndexNames:

β-D-Glucopyranose, 1,1'-[(2E,4E,6E,8E,10E,12E,14E)-2,6,11,15-tetramethyl-2,4,6,8,10,12,14-hexadecaheptaenedioate]

### SMILES:

CC(/C=C/C=C(C)/C(O[C@@H]1O[C@H](CO)[C@@H](O)[C@H](O)[C@H]1O)=O)=C\C=C\C=C(C)\C=C\C=C(C)\C(O[C@@H]2O[C@H](CO)[C@@H](O)[C@H](O)[C@H]2O)=O

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

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